Determination of Public Land (Rangeland) Health for 65021 HAYSTACK MTN

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these Standards.

Field assessment worksheets and other available data which evaluate the local indicators, were completed for this allotment. Based on the assessments, it is my determination that the Public Lands within the Haystack Mtn Allotment #65021 meet the Upland Sites Standard and (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard. There are no Public Land riparian areas on this allotment, therefore this Standard will not addressed.

/s/ T. R. KREAGER

09/22/2003

Assistant Field Manager

Date

Standards of Public Land Health Evaluation of 65021 HAYSTACK MTN Allotment [05/16/2003]

The NM060 Field Office conducted rangeland health assessments at ten study sites within 65021 HAYSTACK MTN. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area		UPLAND			BIOTIC		I	RIPARIAN	I
or Assessment Area	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
65021-#1 - PRIVATE- D063	X			X			N/A		
65021-#1- D056 (*)	X			X			N/A		
65021-#2- D057 (*)	X			X			N/A		
65021-#2- PRIVATE- D064	X			X			N/A		
65021-#3- D058 (*)	X			X	*		N/A		
65021-#4- D059	X			X			N/A		
65021- GRIFFEN EAST-D052 (*)	X			X	*		N/A		
65021-HDQ- D062 (*)	X			X			N/A		
65021-N. BREAKS- D060 (*)	X			X			N/A		
65021-S. BREAKS- D061 (*)	X			X	*		N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for the Haystack Mtn. allotment #65021; 10 of these assessed soil/site stability, 11 assessed hydrologic functions and 13 assessed biotic integrity. These qualitative assessments along with quantitative information from long-term monitoring studies on 10 study areas, were utilized to assess the rangeland health of the public land within the allotment. These quantitative evaluations were performed by the Roswell Field office staff starting in the early 1980's. These included ground and vegetative cover and composition, production, frequency, and ecological condition as calculated from these collections which have been scheduled approximately every 5 years.

Ten study sites/trend plot locations were evaluated. Each site corresponding to a different pasture. There are 2 private pastures/sites on the allotment. Each site is a SD-3 Sandy ecological site with gyp outcrops from the Seven Rivers geomorphological formation. The #1 Private pasture rated all indicators in the None to Slight to Slight to Moderate categories with the exception of invasive plants which rated in the Moderate category. Mesquite (Prosopis glandulosa) is scattered throughout the site. The #2 Private also exhibited all indicators in the None to Slight to Slight to Moderate category, with the exception of annual production and invasive plants, which rated in the Moderate category. Annual production showed only 50-60% of potential, while invasive plants being comprised primarily of mesquite. The site at present, is currently grazed by livestock, but at a very conservative rate. The Hollomex-Reeves-Milner complex is the soil phase on #2 Private, and the overall ocular evaluation shows the site to be in good condition, with threeawn (Aristida spp.) and black grama (Bouteloua eriopoda) exhibiting seed head and/or tiller formation.

Pasture #1 is a Pajarito-Bluepoint soil phase with mesquite representing the major shrub component. This is an eroded soil, generally displaying a higher percentage of bareground ground cover as oppossed to others included in this ecological site with a Sandy/Deep Sandy SD-3 classification. Gulleying and hummocks are common with this soil, particularly in the Bluepoint. These soils are excessively drained and have a low water-holding capacity. All indicators rated in the None to Slight to Slight to Moderate category except 1. Invasive plants rated in the Moderate to Extreme category with mesquite scattered throughout the site. The mesquite canopy at present has had limited impact on perennial grass production or these plants' ability to reproduce. Similar ratings also were recorded at the #2 pasture, with invasive plants common throughout the site for a Moderate to Extreme rating as well.

Pasture 4 rated in the None to Slight to Moderate category. The only indicator rating in the Moderate category was wind-scoured blowouts, and/or depositional areas. There are a few mesquite dunes but infrequent. The south transect line appears to be headed towards a draw where there is an occurrence of more shrub and perennial grass production. The distance from the trend plot to the draw is of considerable distance however and presents a none factor when it comes to invasive plants, which rated at the Slight to Moderate category.

South Breaks Pasture is an ecological site with a Pajarito/Bluepoint (PBB) soil phase. This is an eroded soil. generally, displaying a higher percentage of bareground as oppossed to others included in this ecological site with a Sandy/Deep Sandy SD-3 classification. Gulleying and hummocks are common with this soil, particularly in the Bluepoint. These soils are excessively drained and have a low water-holding capacity. This pasture rated Bareground in the Moderate to Extreme category. Although the current bareground ground cover of 70%, substantially exceeds the upper range of the Ecological Site Description (ESD), which is at 40%, the long-term datum indicates an average of 54%, with a range from 43-73%. This allowed the rating from scoring in the Extreme category. Mesquite domination is heavy on this site and produced a rating in the Extreme category for invasive plants. There are a few scattered sand sage (Artemesia filifolia) plants on this site also. Threeawn (Aristida spp.) is the dominant perennial grass on site with dropseed (Sporobolus spp.) occurring in lesser amounts; resulting in a slight modification in Functional/Structural groups which rated in the Slight to Moderate category. Litter amount rated in the Moderate category, with the percentage falling at the bottom end of the range, expected for the ESD. Annual production currently is approximately 400-500 lbs/ac or kg/ha. This indicates approximately half of the potential production, resulting in a rating of Moderate. The dominance of mesquite on this site is influencing the production, but not the reproductive capability of these perennial grasses which rated in the Slight to Moderate category. Soil surface resistance to erosion rated in the Moderate category, with the soil stability test showing a rapid melting of interspace and under plant canopy soil samples. Organic matter is lacking on this site, but this is expected for an area dominated by mesquite, as indicated by the small amount of litter present. Pedestals and/or terracettes, gullies, and wind-scoured blowouts, and/or depositional areas all rated in the Moderate category, which is indicative for this site. All other indicators rated in the None to Slight to Slight to Moderate category. The mosaic pattern presented by the mesquite dunes and the breaks of this pasture provides excellent habitat for wildlife, ie food, cover and water.

North Breaks Pasture's bareground rating is at Moderate. Currently the percentage is approximately 50%, which exceeds the upper expected range for the ESD which is 15-20%. However, the long-term datum is at 54%, with a range of 33-84%. Functional/Structural groups rated in the Moderate category. This biotic attribute exhibited a replacement of the grama (Bouteloua spp.) grasses by bush muhly (Muhlenbergia porteri), dropseed (Sporobolus spp.), threeawn, javelinabush (Condalia spp.) and mesquite. Bush muhly is the dominant grass species on site. The overall condition of the site is good, with a diversity of forb, grass and shrub species. Annual production is 800-900 lbs/ac or kg/ha approximately. This falls well within the range which approaches and/or exceeds 80% of potential, rating in the Slight to Moderate category. Invasive plants rated in the Moderate to Extreme category with mesquite common throughout.

Pasture #3, which is SD-3 Sandy, appeared to exhibit some gyp inclusions as evidenced by some microbiological crusts on site. But these small areas are infrequent and few, with the FS groups remaining constant. The exception being tobosa (Pleuraphis mutica), which is the dominant perennial grass along with black grama and burrograss

(Scleropogon brevifolius). A rating of Slight to Moderate was given to this indicator. The bareground indicator was given a rating of Moderate. ESD percentage is at 15-20%. A current estimation of 50% far exceeds that expected for the site, but long-term datum also is at 50%. These data have been collected since the late 70's/early 80's, every 5 years, so this rating is justified from that standpoint. Invasive plants was given a rating of Moderate as mesquite was only scattered throughout the site. Litter amount presently is

Griffen East Pasture rated pedestals and terracettes in the Moderate category, as evidenced by dropseed species slightly pedestaling in water flow patterns. Bareground for this pasture was given a rating of Moderate. Although the ESD allows for 15-20% ground cover, long-term datum is 57% for this particular site. The current estimation of 40-45% falls slightly below this value. Invasive plants was Moderate to Extreme with mesquite common throughout the site. A more critical look at this area should be performed to possibly prescribe some future brush treatments. Again a mosaic of vegetation is desired to provide ample wildlife habitat as well as adequate forage.

The Private pasture and the #3 pasture has experienced drought and water and wind erosion conditions which has possibly increased the amount of bare ground. The amount of bareground present suggests that the drought has had a negative affect on the area. The litter amount present suggests that the drought has had a negative affect on the growing conditions which decreases the amount of litter that is produced. A decrease in litter cover can have the effect of increasing the area of bare ground. Gypsum, dolomite, and siltstone rock outcrops from the Yates Formation are present in the area. Quaternary pediment gravels also outcrop in the area.

The #2 pasture has experienced drought and water and wind erosion conditions which has possibly increased the amount of bare ground. The amount of bareground present suggests that the drought has had a negative affect on the area. A decrease in litter cover can have the effect of increasing the area of bare soil. Gypsum, dolomite, and siltstone rock outcrops from the Yates Formation are present in the area. Quaternary pediment gravels also outcrop in the area.

The #4 pasture has experienced an increase in the amount of wind-scoured, blowouts and deposition areas. The decrease in the strength of the soil crusts and/or the absence of soil crusts, wind velocity, surface dryness, surface roughness, and amount of surface plant cover has possibly increased the amount of wind-scoured, blowouts and deposition areas in the area. Gypsum, dolomite, and siltstone rock outcrops from the Yates Formation are present in the area. Quaternary pediment gravels also outcrop in the area.

The Griffin East pasture has experienced drought and wind and water erosion conditions. Erosion is indicated in the area by the presence of pedestals. Slight active pedestalling is present but most pedestals are in water flow paths. A decrease in soil moisture in the area of the Griffin East has possibly decreased the amount of plant cover and possibly decreased infiltration into the soil which may have increased the occurrence of pedestalling on plants and rocks. Water and wind has eroded the soils which has the affect of elevating the plants and rocks to form pedestals. The drought and water and

wind erosion in the area has possibly increased the amount of bare ground. The amount of bareground present suggests that the drought has had a negative affect on the area. Gypsum, dolomite, and siltstone rock outcrops from the Yates Formation are present in the area. Quaternary pediment gravels also outcrop in the area.

The HDQ pasture has experienced drought and water and wind erosion conditions which has possibly increased the amount of bare ground. The amount of bareground present suggests that the drought has had a negative affect on the area. The area has experienced water erosion that has created gullies in the area. Active erosion is indicated by the presence of gullies and vegetation cover is intermittent. Wind-scoured, blowouts and deposition areas are occasionally present in the area. The decrease in the strength of the soil crusts and/or the absence of soil crusts, wind velocity, surface dryness, surface roughness, and amount of surface plant cover has possibly increased the amount of wind-scoured, blowouts and deposition areas in the area. The soil surface resistance to erosion is reduced throughout the site. There has possibly been a reduction of stabilizing agents such as aggregated organic matter at surface and a decrease of adhesion of organic matter to surface soils. Gypsum, dolomite, and siltstone rock outcrops from the Yates Formation are present in the area. Quaternary pediment gravels also outcrop in the area.

The North Breaks pasture has experienced drought and water and wind erosion conditions which has possibly increased the amount of bare ground. The amount of bareground present suggests that the drought has had a negative affect on the area. The litter amount has be effected by the drought or water availability in the area. The litter amount present suggests that the drought has had a negative affect on the growing conditions which decreases the amount of litter that is produced. A decrease in litter cover can have the effect of increasing the area of bare ground. Gypsum, dolomite, and siltstone rocks outcrop from the Yates Formation in the area. Sandstone and conglomerate rocks outcrop in the area from the Santa Rosa Formation. Quaternary pediment gravels outcrop in the area.

The South Breaks pasture has experienced drought and water and wind erosion conditions which has possibly increased the amount of bare ground. The amount of bareground present suggests that the drought has had a negative affect on the area. The decrease in litter amount has possibly added to the effect of increased bare ground. The litter amount has be effected by the drought or water availability in the area. The litter amount present suggests that the drought has had a negative affect on the growing conditions which decreases the amount of litter that is produced. A decrease in litter cover can have the effect of increasing the area of bare ground. Erosion is indicated in the area by the presence of pedestals. Slight active pedestalling is present but most pedestals are in water flow paths. A decrease in soil moisture in the area has possibly decreased the amount of plant cover and possibly decreased infiltration into the soil which may have increased the occurrence of pedestalling on plants and rocks. Water and wind has eroded the soils which has the affect of elevating the plants and rocks to form pedestals.

The area has experienced water erosion that has created gullies in the area. Active erosion is indicated by the presence of gullies and vegetation cover is intermittent. Wind-scoured,

blowouts and deposition areas are occasionally present in the area. The possible decrease in the strength of the soil crusts and/or the absence of soil crusts, wind velocity, surface dryness, surface roughness, and amount of surface plant cover has possibly increased the amount of wind-scoured, blowouts and deposition areas in the area. The soil surface resistance to erosion is reduced throughout the site. There has possibly been a reduction of stabilizing agents such as aggregated organic matter at surface and a decrease of adhesion of organic matter to surface soils. Gypsum, dolomite, and siltstone rocks outcrop from the Yates Formation in the area. Quaternary pediment gravels outcrop in the area.

It is the professional opinion of the Assessment team that this allotment meets the Upland and Biotic standards. Further monitoring of the pastures with brush encroachment maybe warranted, to possibly recommend future vegetation treatments and improve the potential of these areas and the allotment.

The (*) indicates that the assessment had one or more indicator(s) rated moderate/extreme or extreme. These indicators are:

- Bare Ground
- Litter Amount
- Invasive Plants

These indicators by themselves are not enough to rate the site as not meeting a standard but may warrant future monitoring.

Recommendations: The pastures/sites with mesquite (Prosopis glandulosa) encroaching need further monitoring, although there is ample wildlife habitat available. Due to the invasive properties of mesquite, it would be prudent to prescribe brush treatment in the future to open up canopies and allow perennial grass and forb production a better opportunity to manifest itself. This would allow for a greater biodiversity of vegetation and create mosaic patterns, and still benefit wildlife and livestock as well.

RFOs	Upland a	and Biotic Standa	rd Ass	essment Si	ummary \	Workshe	eet
		SITE 65021-#1	- PRI	VATE-D0	63		
Legal L	and Decc	NWNE 10 0070S 02 Meridian 23	260E		Acreas	ge 202	
	Ecosite	042CY004NM SAN SD-3	DY		Photo Take	en N	
V	Vatershed	13060003220 FILL	MORE				
(Observers	NAVARRO/MCGE	Е	Obse	rvation Da	te 07/17/2	2003
County Sc	Soil Survey NM644 CHAVES NORTH			So	il Var/Taxa	ad	
Soil	Map Unit	SMA		Soil '	Taxon Nan	ne SOTIM	
Texture Class NM644 I		NM644 FSL			Soil Pha	SOTIM BERIN	
Texture	ure Modifier NM644 FINE SANDY LOAM		ΟY				
Obse Annual Pre	rved Avg cipitation			Observed Avg Growing Season Precipitation			
NOAA Annual Precipitation		12.64	NOAA Growing Season Precipitation			8.3	
NOAA Av Pre	g Annual cipitation		13.2		NOAA Avg Growing Season Precipitation		10.84
	ances and imal Use:						
Part 2. Attı	ributes an	d Indicators					
				ure from Eco ption/Ecolog			
Attribute	Indicators	S	Extrem	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills						X
Comments:							
SH	Water Flo	ow Patterns				X	
Comments:							
SH	Pedestals	and/or Terracettes					X
Comments:							
SH	Bare Gro	und			X		

Comments:	Bareground is at presently app	roaching	the upper	end of the	range.	
SH	Gullies				X	
Comments:	Comments to be entered by Hy	ydrologist	•			
S	Wind-scoured, Blowouts, and/or Deposition Areas				X	
Comments:	The nature of the site allows for the site.	or limited	wind scou	ring. This	is the natu	ire of
Н	Litter Movement				X	
Comments:	Water has transported some lit	ter agains	t obstructi	ons.		
S H B	Soil Surface Resistance to Erosion				X	
Comments:	Interspace soil initially melts a	nd remain	ns intact;ca	anopy is ol	ζ.	
SHB	Soil Surface Loss or Degradation				X	
Comments:	Physical crusts keeping soil su	rface inta	ct.			
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups				X	
Comments:	Black grama (Bouteloua eriope (Pleuraphis mutica) abundant o ESD.					
В	Plant Mortality/Decadence					X
Comments:	No apparent decadence seen.					
НВ	Litter Amount			X		
Comments:						
В	Annual Production				X	
Comments:	Production is at lower end of 6	0-80%.				
В	Invasive Plants			X		
Comments:	Mesquite (Prosopis glandulosa	only sca	attered.			
В	Reproductive Capability of Perennial Plants					X

S	Physical/Chemical/Biological Crusts					X
Comments:	Biological and physical preser	ıt.				
В	Wildlife Habitat				X	
Comments:						
В	Wildlife Populations				X	
Comments:						
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
Part 3. Sun	ımary					
attributes be	Summary - Each of the indical selow. An indicator is placed in a Standard Attributes.					
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	5	4
Н	Hydrologic	0	0	2	6	3
В	Biotic	0	0	2	6	5
table above <i>More Info</i> , a Values from determination ID team conlead to the conlead to the control of the state of the sta	Summary. In this table, the Exare merged for the <i>Does not M</i> and Slight to Moderate and Non the table are summarized below. This space should most certaflicts with the summarized valletermination. X out the appropria determination by the ID team.	eet columne to Sliglow. Space tainly be uues. Proveriate box	nn, Modera ht merge to is provide used when ide the sou	te becomes form the d d for ration the determ rces of info	s May Need Meets columate of the cination by cormation the cormation than the cormation the cormation the cormation the cormation the cormation the cormatio	d mns. the
Attribute	Rationale			Does Not Meet	May Need More Info	Meets

Soil		0	1	9				
Hydrologic		0	2	9				
Biotic		0	2	11				
Site Notes: P	Site Notes: Private pasture with conservative use by cattle.							

RFOs	Upland	and Biotic Standar	rd A	sses	sment Su	ummary	Workshe	et
		SITE 650)21-#	#1-I	0056			
Legal La	and Desc	SESW 15 0070S 0260 Meridian 23	E		Acreage		324	
	Ecosite	042CY005NM DEEP SAND SD-3			Pho	to Taken	N	
W	atershed	13060003220 FILLMORE						
О	Observers MCGEE/NAVARRO				Observat	ion Date	06/03/2003	
County Soi	1 Survey	NM644 CHAVES NORTH			Soil Va	ar/Taxad		
Soil N	Aap Unit	PBB			Soil Taxo	on Name	PAJARITO)
Texture Class		NM644 LFS			So	oil Phase	PAJARITO BLUEPOIN	
Texture 1	Modifier	NM644 FINE SANDY LOAM,HU	Y					
Observed Avg						ved Avg		
Prec	Annual eipitation					g Season eipitation		
	Annual cipitation	1	2.64	NOAA Growing Season Precipitation			8.3	
	AA Avg Annual cipitation		13.2		OAA Avg (eason Prec			10.84
Disturba Anii	nces and mal Use:							
Part 2. Att	ributes a	nd Indicators						
			-		e from Eco on/Ecolog	_	ite rence Areas	
Attribute	Indicato			eme	Moderate to Extreme	Moderate	Slight to Moderate	None to Sligh
SH	Rills							X
Comments:								
SH	Water F	low Patterns					X	
Comments:								

SH	Pedestals and/or Terracettes X	
Comments:		
SH	Bare Ground X	
Comments:		
SH	Gullies	X
Comments:		
S	Wind-scoured, Blowouts, and/or Deposition Areas	
Comments:		
Н	Litter Movement	X
Comments:		
SHB	Soil Surface Resistance to Erosion	X
Comments:	Organic matter is present and stabilizing.	
SHB	Soil Surface Loss or Degradation	
Comments:		
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff X	
Comments:		
SHB	Compaction Layer	X
Comments:		
В	Functional/Structural Groups X	
Comments:	Mesquite canopy covers	
В	Plant Mortality/Decadence	X
Comments:		
НВ	Litter Amount X	
Comments:		
В	Annual Production	X
Comments:		
В	Invasive Plants X	
Comments:		
В	Reproductive Capability of Perennial Plants	X
Comments:		

S	Physical/Chemical/Biological Crusts				X	
Comments:	Physical crusts evident					
В	Wildlife Habitat				X	
Comments:						
В	Wildlife Populations				X	
Comments:						
В	Special Status Species Habitat					X
Comments:	None known to occur					
В	Special Status Species Populations					X
Comments:	None known to occur					
Part 3. Sun	ımary					
attributes be	Summary - Each of the indicated with Standard Attributes.					
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	6	4
Н	Hydrologic	0	0	0	6	5
В	Biotic	0	1	0	5	7
table above <i>More Info</i> , a Values from determination ID team conlead to the conlead to the control of the state of the sta	Summary. In this table, the Exare merged for the <i>Does not M</i> and Slight to Moderate and Non the table are summarized below. This space should most cert afficts with the summarized valletermination. X out the appropria determination by the ID team.	eet columne to Sliglow. Space tainly be uues. Provintate box	nn, Modera ht merge to is provide used when ide the sou	te becomes form the d d for ration the determ rees of info	s May Need Meets columate of the ination by cormation the	d mns. the
Attribute	Rationale			Does Not Meet	May Need More	Meets

Soil	0	0	10
Hydrologic	0	0	11
Biotic	1	0	12
Site Notes:			

RFOs	Upland a	and Biotic Standa	rd A	Asses	ssment Su	ummary	Workshe	eet
		SITE 650	021	-#2-I	0057			
Legal L	and Desc	SWSE 14 0070S 0260E Meridian 23				Acreage	324	
	Ecosite	042CY005NM DEE SAND SD-3	EP		Pho	to Taken	N	
V	Vatershed	13060003220 FILLMORE						
(Observers	MCGEE/ NAVARR	O		Observat	ion Date	06/03/2003	
County So	oil Survey	NM644 CHAVES NORTH			Soil V	ar/Taxad		
Soil	Map Unit	BPB			Soil Taxo	on Name	BERINO	
Texture Class		NM644 SCL			So	วบ Phacell	BERINO- BLUEPOIN	NT
Texture	Modifier	NM644 SANDY CLAY LOAM,HU						
Observed Avg Annual Precipitation				Observed Avg Growing Season Precipitation				
	A Annual cipitation	12.	.64	Precipitation			8.3	
NOAA Av Pre	g Annual cipitation	1.	3.2	NOAA Avg Growing Season Precipitation				
	ances and imal Use:							
Part 2. Attı	ibutes an	d Indicators						
					e from Eco on/Ecolog		ite ence Areas	
Attribute	Indicators	S	Ext	reme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills							X
Comments:								
SH	Water Flo	ow Patterns						X
Comments:								
SH	Pedestals	and/or Terracettes						X
Comments:								

SH	Bare Ground			X	
Comments:				 	
SH	Gullies				X
Comments:		· ·		 <u> </u>	
S	Wind-scoured, Blowouts, and/or Deposition Areas				X
Comments:	Occurring naturally in dunal ar	eas.			
Н	Litter Movement				X
Comments:					
SHB	Soil Surface Resistance to Erosion			X	
Comments:					
SHB	Soil Surface Loss or Degradation				X
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:				 	
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups				X
Comments:					
В	Plant Mortality/Decadence				X
Comments:					
НВ	Litter Amount				X
Comments:					
В	Annual Production				X
Comments:					
В	Invasive Plants		X		
Comments:					
В	Reproductive Capability of Perennial Plants				X
Comments:					
S	Physical/Chemical/Biological Crusts			X	

Comments						
В	Wildlife Habitat				X	
Comments					I.	
В	Wildlife Populations				X	
Comments						
В	Special Status Species Habitat					X
Comments	None known to occur.					
В	Special Status Species Populations					X
Comments	None known to occur.	-				
Part 3. Su	mmary					
attributes b	or Summary - Each of the indicate elow. An indicator is placed in Standard Attributes.					
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	3	7
Н	Hydrologic	0	0	0	3	8
В	Biotic	0	1	0	3	9
table above More Info, Values from determination ID team collead to the	e Summary. In this table, the Exercise are merged for the <i>Does not M</i> and Slight to Moderate and Norm the table are summarized beloion. This space should most cernflicts with the summarized value determination. X out the approprint determination by the ID team	ne to Slightow. Space tainly be uses. Provertiate box	nn, Modera ht merge to is provide used when ide the sou	te becomes form the A d for ration the determances of info	s May Nee Meets colunale of the ination by ormation t	the
					Info	

Soil

Hydrologic

Biotic	1	0	12
Site Notes:			

RFOs	Upland	l and Biotic Standa	rd A	Asses	ssment Si	ımma	ıry	Workshe	eet
		SITE 65021-#2	2-P	RIV	ATE-D06	4			
Legal Lar	nd Desc	NENE 11 0070S 0260 Meridian 23	Е		Ad	creage			
	Ecosite	042CY004NM SANDY SD-3 Photo Taken		N					
Wa	tershed	13060003220 FILLMORE							
Ob	servers	NAVARRO/MCGEE			Observation	n Date	07/	17/2003	
		NM644 CHAVES NORTH			Soil Var/	Taxad			
Soil M	ap Unit	HMA		S	Soil Taxon	Name	НО	LLOMEX	
Textur	e Class	NM644 L			Soil	Phase	1	LLOMEX EVES-MII	
Texture M	Iodifier	NM644 LOAM,DRY							
	Annual		Observed Avg Growing Season						
NOAA	pitation				Precipi				
	pitation	12	.64	1	NOAA Greson Precipi	_			8.3
	A Avg Annual	1	3.2		NOAA Growing S	Season			10.84
	pitation				Precipi	itation			
Disturban Anim	ces and al Use:								
Part 2. Attr	ibutes :	and Indicators							
				-	e from Eco ion/Ecolog	_			
Attribute	Indicate	ors	Ext	reme	Moderate to Extreme	Mode	rate	Slight to Moderate	None to Slight
SH	Rills							X	
Comments:								1	
SH	Water I	Flow Patterns						X	
Comments:									
SH	Pedesta	lls and/or Terracettes						X	

Comments:					
SH	Bare Ground		X		
Comments:					
SH	Gullies			X	
Comments:	Vegetation is stabilizing the sit	te.			
S	Wind-scoured, Blowouts, and/or Deposition Areas			X	
Comments:					
Н	Litter Movement			X	
Comments:					
SHB	Soil Surface Resistance to Erosion				X
Comments:					
SHB	Soil Surface Loss or Degradation				X
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X
Comments:					
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups				X
Comments:	High amount of black grama a	nd other preferred p	perennials or	n site.	
В	Plant Mortality/Decadence				X
Comments:					
НВ	Litter Amount			X	
Comments:					
В	Annual Production				X
Comments:					
В	Invasive Plants		X		
Comments:	Mesquite only scattered.				
В	Reproductive Capability of Perennial Plants				X
Comments:					
S	Physical/Chemical/Biological				X

	Crusts					
Comments:	Physical crusts evident.					
В	Wildlife Habitat				X	
Comments:						
В	Wildlife Populations				X	
Comments:						
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
	nmary					
attributes be						
A. Indicator attributes be each of the	nmary r Summary - Each of the incelow. An indicator is placed					
A. Indicator attributes be each of the Standard Attribute	nmary r Summary - Each of the incelow. An indicator is placed	l in a category	Moderate to) above an	d summed Slight to	None to
A. Indicatorattributes be each of the Standard Attribute	nmary r Summary - Each of the incelow. An indicator is placed Standard Attributes.	Extreme	Moderate to Extreme) above an	Slight to Moderate	None to Sligh
A. Indicator attributes be each of the Standard	nmary r Summary - Each of the incelow. An indicator is placed Standard Attributes.	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Sligh

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9

Hydrologic	0	1	10
Biotic	0	1	12

Site Notes: This site is under very conservative stocking at the moment. The health of the site is very good to excellent judging from the amount of ground cover.

Pasture is all private land.

RFOs	Upland a	and Biotic Standa	rd Ass	essment Si	ımmary \	Workshe	eet
		SITE 65	021-#3	-D058			
Legal I	and Desc	SESW 1 0070S 026 Meridian 23	0E		Acreag	ge 889	
	Ecosite	042CY004NM SAN SD-3	IDY	:	Photo Take	en Y	
V	Vatershed	13060003220 FILL	MORE				
(Observers	NAVARRO/MCGE	EE	Obse	rvation Da	te 08/21/2	2003
County So	oil Survey	NM644 CHAVES NORTH		So	il Var/Taxa	ıd	
Soil	Map Unit	SMA		Soil	Гахоп Nam	ne SOTIM	[
Text	ture Class	NM644 FSL			Soil Phas	SOTIM BERIN	
Texture	Modifier	NM644 FINE SANI LOAM	DY				
Obse Annual Pre	rved Avg cipitation			Observed A Season	vg Growin Precipitation	• II	
	A Annual cipitation		12.64	NOAA Gro	wing Seaso Precipitatio		8.3
NOAA Av Pre	g Annual cipitation		13.2		vg Growin Precipitation	- □	10.84
	ances and imal Use:						
Part 2. Attı	ibutes an	d Indicators					
			Depart Descri	ure from Eco ption/Ecolog	ological Sit	e nce Areas	
Attribute	Indicators	3	Extrem	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills						X
Comments:							
SH	Water Flo	ow Patterns				X	
Comments:							
SH	Pedestals	and/or Terracettes				X	
Comments:							
SH	Bare Gro	und			X		

Comments:	At present, the bareground is 4 ESD which is only 15-20%. H percentage of 50% from 1979	owever th	ne long-teri		_	the
SH	Gullies				X	
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas				X	
Comments:						
Н	Litter Movement				X	
Comments:						
SHB	Soil Surface Resistance to Erosion				X	
Comments:						
SHB	Soil Surface Loss or Degradation					X
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups				X	
Comments:	FS groups only slightly reduce expected.	ed. More t	obosa (Ple	uraphis m	utica) than	
В	Plant Mortality/Decadence					X
Comments:						
НВ	Litter Amount		X			
Comments:	At present, amount of litter is 31%. ESD indicates 35-45%. Trating.					
В	Annual Production				X	
Comments:	Annual production is at 80% or range.	f potentia	and falls	well withi	n the expec	eted
В	Invasive Plants			X		
Comments:	Mesquite (Prosopis glandulosa	n) only sc	attered thro	oughout.		
В	Reproductive Capability of					X

	Perennial Plants					
Comments:						
S	Physical/Chemical/Biological Crusts				X	
Comments:	Some physical crusts with son inclusions.	ne microb	oiological c	rusting on	very small	gyp
В	Wildlife Habitat				X	
Comments:						
В	Wildlife Populations				X	
Comments:						
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
Part 3. Sun	nmary					
l						
attributes be	Summary - Each of the indicate slow. An indicator is placed in a Standard Attributes.					
attributes be	elow. An indicator is placed in					
attributes be each of the Standard	elow. An indicator is placed in	a category	Moderate to	a) above an	d summed Slight to	None to
attributes be each of the Standard Attribute	elow. An indicator is placed in Standard Attributes.	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
attributes be each of the Standard Attribute	elow. An indicator is placed in Standard Attributes. Soil	Extreme 0	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
Standard Attribute S H B B. Attribute table above More Info, a Values from determination ID team con lead to the of	Soil Hydrologic	Extreme 0 0 ctreme and eet columne to Slighow. Space rainly be uses. Provoriate box	Moderate to Extreme 0 1 1 d Extreme nn, Modera th merge to is provide used when ide the sou	Moderate 1 1 1 to Modera te become to form the d d for ration the determ	Slight to Moderate 6 6 5 te columns is May Nee Meets columnale of the ination by ormation the denote fina	None to Slight 3 6 s in the d mms.

		Meet	Need More Info	
Soil		0	1	9
Hydrologic	Litter amount	1	1	9
Biotic		1	1	11
Site Notes:				

	- I							
		SITE 65	021-#4	-D059				
Legal I	and Desc	NESE 13 0070S 026 Meridian 23	60E		Acreas	ge 318		
	Ecosite	042CY004NM SAN SD-3	IDY		Photo Take	en Y		
V	Watershed	13060003220 FILL	MORE					
	Observers	NAVARRO/MCGE	E	Obse	rvation Da	te 08/14/2	003	
County So		NM644 CHAVES NORTH Soil Var/Taxad		nd				
Soil	Map Unit	SNB		Soil '	Taxon Nan	ne SOTIM		
Tex	ture Class	NM644 FSL			Soil Phas	se SOTIM SIMON		
Texture	Modifier	NM644 FINE SANI LOAM	DY					
Observed Avg Annual Precipitation			Observed A Season	Avg Growin Precipitation	- I			
NOAA Annual Precipitation		12.64		NOAA Growing Season Precipitation				
NOAA Av Pre	g Annual ecipitation	13.2		NOAA Avg Growing Season Precipitation			10.84	
	ances and imal Use:							
Part 2. Att	ributes an	d Indicators						
				ure from Eco ption/Ecolog			1	
Attribute	Indicator	S	Extren	Moderate to Extreme	Moderate	Slight to Moderate	None to Sligh	
SH	Rills						X	
Comments:		e slope.	<u> </u>			I	<u> </u>	
SH		ow Patterns				X		
Comments:	Soils dep	osited mostly on hun	nmocks					
SH		and/or Terracettes					X	
Comments:								
SH	Bare Gro	und				X		

RFOs Upland and Biotic Standard Assessment Summary Worksheet

Comments:	Percent bareground is at present	nt, 30-359	%.			
SH	Gullies				X	
Comments:	Slope dependent.					
S	Wind-scoured, Blowouts, and/or Deposition Areas			X		
Comments:	Mesquie building dune humme	ocks.				
Н	Litter Movement					X
Comments:						
SHB	Soil Surface Resistance to Erosion					X
Comments:	There is almost no melting of	ether the	canopy or	interspace	samples.	
SHB	Soil Surface Loss or Degradation					X
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:	Large amounts of tobosa (Pleu	raphis m	utica) pres	ent.		
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups				X	
Comments:	Tobosa (Pleuraphis mutica) is (Bouteloua eriopoda) and burr					a
В	Plant Mortality/Decadence					X
Comments:	Very little evidence of decader	ice.				
НВ	Litter Amount				X	
Comments:						
В	Annual Production				X	
Comments:						
В	Invasive Plants				X	
Comments:						
В	Reproductive Capability of Perennial Plants					X
Comments:	There is nothing inhibiting rep	roductive	capability	7.		
S	Physical/Chemical/Biological Crusts				X	

	There is some biological and p	physical c	rusting.			
В	Wildlife Habitat				X	
Comments:						
В	Wildlife Populations				X	
Comments:						
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
Part 3. Sun						
attributes be	Summary - Each of the indication. An indicator is placed in Standard Attributes.					
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	4	5
Н	Hydrologic	0	0	0	5	6
			U			
В	Biotic	0	0	0	6	7
B. Attribute table above <i>More Info</i> , a Values from determination ID team concluded to the determination of the de	Summary. In this table, the Exare merged for the <i>Does not M</i> and Slight to Moderate and Note that table are summarized belown. This space should most certiflicts with the summarized valletermination. X out the appropriate determination by the ID team	Atreme and leet columne to Slightow. Space tainly be ulues. Provoriate box	d Extreme an, Modera ant merge to is provide used when ide the sou	to Moderate becomes of form the determinates of info	te columns as May Nee Meets columnale of the ination by ormation the	7 s in the d mms.
B. Attribute table above <i>More Info</i> , a Values from determination ID team concluded to the determination of the de	Summary. In this table, the Exare merged for the <i>Does not M</i> and Slight to Moderate and Not a the table are summarized belon. This space should most ceruflicts with the summarized valletermination. X out the appropri	Atreme and leet columne to Slightow. Space tainly be ulues. Provoriate box	d Extreme an, Modera ant merge to is provide used when ide the sou	to Moderate becomes of form the determinates of info	te columns as May Nee Meets columnale of the ination by ormation the	7 s in the d mms. the hat
B. Attribute table above <i>More Info</i> , a Values from determination ID team conlead to the dagreed upon	Summary. In this table, the Exare merged for the <i>Does not M</i> and Slight to Moderate and Not the table are summarized belon. This space should most certiflicts with the summarized valletermination. X out the appropriate determination by the ID team	Atreme and leet columne to Slightow. Space tainly be ulues. Provoriate box	d Extreme an, Modera ant merge to is provide used when ide the sou	to Moderate becomes of form the determinates of infectivibute to compare the determination of	te columns as May Need Meets columnation by cormation the denote final May Need More	7 s in the d mms.

Biotic		0	0	13
--------	--	---	---	----

Site Notes: This site has a dominance of tobosa (Pleuraphis mutica) over the other more preferred grasses such as black grama (Bouteloua eriopoda) or blue grama (Bouteloua gracilis). The encroachment of mesquite (Prosopis glandulosa) is not a threat at this time. Although as the site progresses southward, there is more evidence of mesquite towards the drainage at the foothills of Haystack Mountain. This however is at the far reaches of the transect. Production is high at this time, however the major plant making up the production is tobosa.

RFOs	Upland	and Biotic Standar	rd A	ssessn	nent Si	ummary	Worksho	eet
		SITE 65021-GR	IFFE	EN EA	ST-D	052		
Legal La	and Desc	NENE 25 0070S 0260E Meridian 23			Acreage		684	
	Ecosite	042CY004NM SAND SD-3	PΥ	Photo Taken		Y		
W	atershed	13060003220 FILLMORE						
C	bservers	NAVARRO/MCGEE		C	bservat	ion Date	08/21/2003	
County So	il Survey	NM644 CHAVES NORTH			Soil V	ar/Taxad		
Soil N	Map Unit	PBB		S	oil Taxo	on Name	PAJARITO)
Text	ure Class	NM644 FSL			So	oil Phase	PAJARITO BLUEPOI	
Texture	Modifier	NM644 FINE SANDY LOAM,HU	Y					
	eved Avg Annual cipitation			Observed Avg Growing Season Precipitation				
	A Annual cipitation	1	2.64	NOAA Growing Season Precipitation			8.3	
	OAA Avg Annual cipitation		13.2		_	Growing ipitation		10.84
	nces and mal Use:							
Part 2. Att	ributes a	nd Indicators						
				parture from Ecological Site scription/Ecological Reference Areas			}	
Attribute	Indicato	rs	Extre	Moderate		Slight to Moderate	None to Sligh	
SH	Rills							X
Comments:								
SH	Water F	low Patterns					X	
Comments:								

SH	Pedestals and/or Terracettes			X		
Comments:	Some pedestalling.	<u> </u>			,	
SH	Bare Ground			X		
Comments:	The percent bareground is at 4 ESD. Long term data, however range of 24-73%.					
SH	Gullies				X	
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas				X	
Comments:						
Н	Litter Movement				X	
Comments:						
SHB	Soil Surface Resistance to Erosion				X	
Comments:	Slight melting for both the can	opy and in	terspace a	reas.		
SHB	Soil Surface Loss or Degradation					X
Comments:	None observed.					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups				X	
Comments:	Grama grasses have been displespp.), and dropseed (Sporobolic however remains prevelent.					
В	Plant Mortality/Decadence				X	
Comments:						
НВ	Litter Amount				X	
Comments:	Litter amount is currently at 30 for the ESD. Long term average		ch falls w	ithin the o	expected ra	nge
В	Annual Production				X	
Comments:	Production is approximately at monitoring data. ESD range is					

	still in the range. 60-80% of po	otential.							
В	Invasive Plants X								
Comments:	Mesquite (Prosopis glandulosa encroaching.	a) commo	n througho	out the site,	, and				
В	Reproductive Capability of Perennial Plants X								
Comments:	Despite the brush encroachment, reproductive capability is only slightly limited.								
S	Physical/Chemical/Biological Crusts				X				
Comments:	Physical crusts evident and ho	lding the	soils intact	t.					
В	Wildlife Habitat				X				
Comments:									
В	Wildlife Populations				X				
Comments:									
В	Special Status Species Habitat					X			
Comments:	None known to occur.								
В	Special Status Species Populations					X			
Comments:	None known to occur.								
Part 3. Sun	nmary								
attributes be	Summary - Each of the indicate elow. An indicator is placed in Standard Attributes.								
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Sligh			
S	Soil	0	0	2	5	3			
Н	Hydrologic	0	0	2	6	3			
	Biotic								

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the

determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	2	8
Hydrologic		0	2	9
Biotic	Mesquite (Prosopis glandulosa) encroachment needs to be evaluated and monitored. The brush however is yet to inhibit the site's potential and does provide a mosaic for wildlife cover and habitat. Coppice dunes are evident and this explains the higher percentage of bareground. Sand sage (Artemesia filifolia) is also present, but in lesser amounts.	1	0	12

RFOs	Upland a	and Biotic Standa	rd Ass	sessment Si	ımmary `	Workshe	eet	
		SITE 6502	21-HD	Q-D062				
Legal I	and Desc	SESE 4 0070S 0260 Meridian 23	ЭE		Acreas	ge		
	Ecosite 042CY004NM SAN SD-3		NDY		Photo Take	en N		
7	Watershed	13060003220 FILLMORE						
(Observers	NAVARRO/MCGE	EΕ	Obse	rvation Da	te 06/03/2	003	
County So	oil Survey	NM644 CHAVES NORTH		So	il Var/Taxa	ıd		
Soil	Map Unit	SMA		Soil	Гахоп Nan	ne SOTIM		
Tex	ture Class	NM644 FSL			Soil Phas	Se SOTIM BERIN		
Texture	Modifier	NM644 FINE SAN LOAM	DY					
Obse Annual Pre	erved Avg ecipitation			Observed Avg Growing Season Precipitation		- □		
	A Annual ecipitation		12.64	NOAA Growing Season Precipitation			X 1	
NOAA Av Pre	g Annual ecipitation		13.2	NOAA Avg Growing Season Precipitation		- I	10.84	
	ances and imal Use:							
Part 2. Attı	ributes an	d Indicators						
				ture from Eco ption/Ecolog				
Attribute	Indicators	5	Extren	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight	
S H	Rills						X	
Comments:								
SH	Water Flo	ow Patterns				X		
Comments:								
SH	Pedestals	and/or Terracettes				X		
Comments:								

SH	Bare Ground	X			
Comments:					
SH	Gullies		X		
Comments:					
S	Wind-scoured, Blowouts, and/or Deposition Areas		X		
Comments:	Some vegetation on blowouts.				
Н	Litter Movement			X	
Comments:					
SHB	Soil Surface Resistance to Erosion		X		
Comments:					
SHB	Soil Surface Loss or Degradation			X	
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:					
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups		X		
Comments:		 			
В	Plant Mortality/Decadence			X	
Comments:		 			
НВ	Litter Amount			X	
Comments:					
В	Annual Production		X		
Comments:					
В	Invasive Plants	X			
Comments:				1	-
В	Reproductive Capability of Perennial Plants			X	
Comments:					
S	Physical/Chemical/Biological Crusts			X	

Comments:						
В	Wildlife Habitat				X	
Comments:						
В	Wildlife Populations				X	
Comments:		<u>'</u>				
В	Special Status Species Habitat					X
Comments:	None Known to Occur					
В	Special Status Species Populations					X
Comments:	None Known to Occur					
Part 3. Sur	nmary					
attributes b	r Summary - Each of the indicate elow. An indicator is placed in Standard Attributes.					
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	1	3	4	2
S H	Soil Hydrologic	0	1	2	6	2
B. Attribute table above <i>More Info</i> , Values from determinati ID team collead to the o	Hydrologic	axtreme and leet columne to Sliglow. Space tainly be ulues. Provpriate box	d Extreme in, Modera the merge to is provide used when ide the sou	to Moderate becomes of form the determinates of info	te columns s May Nee Meets columnale of the ination by ormation the	2 3 s in the ad the hat
B. Attribute table above <i>More Info</i> , Values from determinati ID team collead to the o	Hydrologic Biotic E Summary. In this table, the Extra are merged for the <i>Does not M</i> and Slight to Moderate and No in the table are summarized below. This space should most cernflicts with the summarized validetermination. X out the appropriate the summarized of the summarized of the summarized validetermination.	axtreme and leet columne to Sliglow. Space tainly be ulues. Provpriate box	d Extreme in, Modera the merge to is provide used when ide the sou	to Moderate becomes of form the determinates of info	te columns s May Nee Meets columnale of the ination by ormation the	2 3 s in the ad arms. the hat
B. Attribute table above More Info, Values from determinati ID team conlead to the dagreed upon	Hydrologic Biotic Summary. In this table, the Exare merged for the <i>Does not M</i> and Slight to Moderate and Nom the table are summarized belown. This space should most cernflicts with the summarized valdetermination. X out the appropriate determination by the ID teams	axtreme and leet columne to Sliglow. Space tainly be ulues. Provpriate box	d Extreme in, Modera the merge to is provide used when ide the sou	to Moderate becomes of form the determinates of infectivibute to compare the determination of	te columns s May Need Meets columnation by ormation the denote final May Need More	2 3 s in the ed the hat

Biotic	1	3	9
Site Notes: Pasture is all private land.			

RFOs U	U pland	and Biotic Standa	rd A	sses	sment Su	ımmary	y Workshe	eet
		SITE 65021-N	l. BR	REA	KS-D060)		
Legal La	nd Llegal	NESW 7 0070S 0270 Meridian 23	Е		Acreage		993	
	Ecosite	042CY004NM SAND SD-3	PΥ		Phot	to Taken	N	
Wa	atershed	13060003220 FILLMORE						
Ol	oservers	NAVARRO/MCGEE			Observat	ion Date	08/21/2003	
County Soil	Survey	NM644 CHAVES NORTH			Soil Va	ar/Taxad		
Soil M	Iap Unit	PBB			Soil Taxo	on Name	PAJARITO	
Textu	re Class	NM644 FSL			So	oil Phase	PAJARITO BLUEPOIN	
Texture N	Modifier	NM644 FINE SAND LOAM,HU	Y					
Observ	ed Avg					ved Avg		
Preci	Annual pitation					g Season ipitation		
	Annual pitation	1	2.64	S	NOAA (eason Prec	Growing ipitation	' 1 X	
NOAA Avg Preci	Annual pitation		13.2		OAA Avg (eason Prec			10.84
Disturbar Anin	nces and nal Use:							
Part 2. Attr	ibutes a	nd Indicators						
					e from Eco on/Ecolog		Site rence Areas	
Attribute	Indicato	rs	Extre	xtreme Moderate to Moderate Extreme		Slight to Moderate	None to Slight	
S H	Rills							X
Comments:	141110		<u> </u>					
S H	Water F	low Patterns					X	
Comments:			<u> </u>			<u> </u>		L
SH	Pedestal	s and/or Terracettes					X	

Percent bareground is 45-50% currently. This exceeds the upper expected range for the ESD, but the long-term average is 54%. A rating of moderate is more appropriate for this particular site. S H Gullies	Comments:						
Comments: range for the ESD, but the long-term average is 54%. A rating of moderate is more appropriate for this particular site. S H Gullies	SH	Bare Ground			X		
Comments: S	Comments:	range for the ESD, but the long	g-term av				
S Wind-scoured, Blowouts, and/or Deposition Areas X Comments: Litter Movement X Comments: Litter being displaced. S H B Soil Surface Resistance to Erosion X Comments: X SH B Soil Surface Loss or Degradation X Comments: X Plant Community Composition and Distribution Relative to Infiltration and Runoff X Comments: X S H B Compaction Layer X Comments: X Comments: X B Functional/Structural Groups X Comments: Comments: X Comments: Comments: X Comments:	SH	Gullies				X	
A comments: H Litter Movement	Comments:						
H Litter Movement	S					X	
Comments: Litter being displaced. S H B	Comments:						
S H B Soil Surface Resistance to Erosion X Comments: S H B Soil Surface Loss or Degradation X Comments: H Composition and Distribution Relative to Infiltration and Runoff X S H B Compaction Layer X Comments: S H B Compaction Layer X Comments: B Functional/Structural Groups X Grama grasses being replaced primarily by dropseed (Sporobolus spp.), threeawn (Aristida spp.), and mesquite (Prosopis glandulosa). Bush muhly (Muhlenbergia porteri) is the grass species which is most dominant, occurring in the open spaces as well as within the shrubs themselves. B Plant Mortality/Decadence X Comments: H B Litter Amount X Litter amount at present is at 15-20%. It falls well below the bottom end of the range expected for the ESD which is 35%-45%. Long-term data, however indicates an average of 20%, with a range between 5% and 32%. B Annual Production X	Н	Litter Movement				X	
Comments: S H B	Comments:	Litter being displaced.					
S H B Soil Surface Loss or Degradation X Comments: H Plant Community Composition and Distribution Relative to Infiltration and Runoff X Comments: S H B Compaction Layer X Comments: B Functional/Structural Groups X Grama grasses being replaced primarily by dropseed (Sporobolus spp.), threeawn (Aristida spp.), and mesquite (Prosopis glandulosa). Bush muhly (Muhlenbergia porteri) is the grass species which is most dominant, occurring in the open spaces as well as within the shrubs themselves. B Plant Mortality/Decadence X Comments: H B Litter Amount X Litter amount at present is at 15-20%. It falls well below the bottom end of the range expected for the ESD which is 35%-45%. Long-term data, however indicates an average of 20%, with a range between 5% and 32%. B Annual Production X	SHB					X	
Comments: Plant Community	Comments:		· · · · · · · · · · · · · · · · · · ·	•			
Plant Community Composition and Distribution Relative to Infiltration and Runoff Comments: S H B Compaction Layer X Comments: B Functional/Structural Groups X Grama grasses being replaced primarily by dropseed (Sporobolus spp.), threeawn (Aristida spp.), and mesquite (Prosopis glandulosa). Bush muhly (Muhlenbergia porteri) is the grass species which is most dominant, occurring in the open spaces as well as within the shrubs themselves. B Plant Mortality/Decadence X Comments: H B Litter Amount X Litter amount at present is at 15-20%. It falls well below the bottom end of the range expected for the ESD which is 35%-45%. Long-term data, however indicates an average of 20%, with a range between 5% and 32%. B Annual Production X	SHB					X	
Comments: S H B Compaction Layer X Comments: B Functional/Structural Groups X Grama grasses being replaced primarily by dropseed (Sporobolus spp.), threeawn (Aristida spp.), and mesquite (Prosopis glandulosa). Bush muhly (Muhlenbergia porteri) is the grass species which is most dominant, occurring in the open spaces as well as within the shrubs themselves. B Plant Mortality/Decadence X Comments: H B Litter Amount X Litter amount at present is at 15-20%. It falls well below the bottom end of the range expected for the ESD which is 35%-45%. Long-term data, however indicates an average of 20%, with a range between 5% and 32%. B Annual Production X	Comments:						
Comments: B Functional/Structural Groups	Н	Composition and Distribution Relative to Infiltration and				X	
Comments: B Functional/Structural Groups X Grama grasses being replaced primarily by dropseed (Sporobolus spp.), threeawn (Aristida spp.), and mesquite (Prosopis glandulosa). Bush muhly (Muhlenbergia porteri) is the grass species which is most dominant, occurring in the open spaces as well as within the shrubs themselves. B Plant Mortality/Decadence X Comments: H B Litter Amount X Litter amount at present is at 15-20%. It falls well below the bottom end of the range expected for the ESD which is 35%-45%. Long-term data, however indicates an average of 20%, with a range between 5% and 32%. B Annual Production X	Comments:		<u> </u>				
Grama grasses being replaced primarily by dropseed (Sporobolus spp.), threeawn (Aristida spp.), and mesquite (Prosopis glandulosa). Bush muhly (Muhlenbergia porteri) is the grass species which is most dominant, occurring in the open spaces as well as within the shrubs themselves. B Plant Mortality/Decadence	SHB	Compaction Layer					X
Grama grasses being replaced primarily by dropseed (Sporobolus spp.), threeawn (Aristida spp.), and mesquite (Prosopis glandulosa). Bush muhly (Muhlenbergia porteri) is the grass species which is most dominant, occurring in the open spaces as well as within the shrubs themselves. B Plant Mortality/Decadence	Comments:				<u>'</u>		
threeawn (Aristida spp.), and mesquite (Prosopis glandulosa). Bush muhly (Muhlenbergia porteri) is the grass species which is most dominant, occurring in the open spaces as well as within the shrubs themselves. B Plant Mortality/Decadence	В	Functional/Structural Groups			X		
Comments: H B Litter Amount X Litter amount at present is at 15-20%. It falls well below the bottom end of the range expected for the ESD which is 35%-45%. Long-term data, however indicates an average of 20%, with a range between 5% and 32%. B Annual Production X	Comments:	threeawn (Aristida spp.), and r (Muhlenbergia porteri) is the g	nesquite (grass spec	Prosopis gies which i	landulosa) s most dor). Bush mu ninant,	
Litter Amount Litter amount at present is at 15-20%. It falls well below the bottom end of the range expected for the ESD which is 35%-45%. Long-term data, however indicates an average of 20%, with a range between 5% and 32%. Annual Production X	В	Plant Mortality/Decadence					X
Litter amount at present is at 15-20%. It falls well below the bottom end of the range expected for the ESD which is 35%-45%. Long-term data, however indicates an average of 20%, with a range between 5% and 32%. B Annual Production X	Comments:						
Comments: the range expected for the ESD which is 35%-45%. Long-term data, however indicates an average of 20%, with a range between 5% and 32%. B Annual Production X	НВ	Litter Amount			X		
	Comments:	the range expected for the ESI) which is	35%-45%	. Long-ter	m data, ho	
Comments: Annual production is closer to 80% of potential	В	Annual Production				X	
	Comments:	Annual production is closer to	80% of p	otential.			

В	Invasive Plants		X			
Comments	Mesquite (Prosopis glandulosa principal shrub encroaching w scattered, but in smaller amou	ith some	_			ne
В	Reproductive Capability of Perennial Plants					X
Comments						
S	Physical/Chemical/Biological Crusts				X	
Comments	Physical crusts evident.					
В	Wildlife Habitat				X	
Comments						
В	Wildlife Populations				X	
Comments						
В	Special Status Species Habitat					X
Comments	None known to occur.					
В	Special Status Species Populations					X
Comments	None known to occur.					
Part 3. Su	<u> </u>					
attributes b	or Summary - Each of the indicated in Standard Attributes.					
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Sligh
	Soil	0	0	1	7	2
S						
S H	Hydrologic	0	0	2	7	2

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that

lead to the determination. X out the appropriate box for each attribute to denote final
agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9
Hydrologic		0	2	9
Biotic	Mesquite (Prosopis glandulosa) is common. It appears to be encroaching, but still is providing adequate habitat for upland game birds, mule deer (Odocoileus hemionus) and other wildlife species. This site should remain in a mosaic pattern solely for this purpose.	1	2	10
Site Notes:				

RFOs	Upland	and Biotic Standar	rd A	sses	ssment Si	ummary	Workshe	et
		SITE 65021-S	. BR	EA	KS-D061	1		
Legal La	and Desc	SESW 18 0070S 0270 Meridian 23	ÞΕ			Acreage	763	
	Ecosite	042CY004NM SAND SD-3	PΥ		Pho	to Taken	N	
W	atershed	13060003220 FILLMORE						
C	bservers	NAVARRO/MCGEE			Observat	ion Date	08/19/2003	
County Soi	l Survey	NM644 CHAVES NORTH			Soil V	ar/Taxad		
Soil N	Map Unit	PBB			Soil Taxo	on Name	PAJARITO)
Textı	ıre Class	NM644 FSL			So	oil Phase	PAJARITO BLUEPOIN	
Texture	Modifier	NM644 FINE SANDY LOAM,HU	Y					
Obser	ved Avg				Obser	ved Avg		
D	Annual					g Season		
	eipitation					eipitation		
	Annual cipitation	1	2.64	S	NOAA (eason Prec	Growing cipitation		8.3
	AA Avg Annual cipitation		13.2		OAA Avg eason Prec			10.84
Disturba Ani	nces and mal Use:		·					
Part 2. Att	ributes a	nd Indicators						
			-		e from Eco	_	ite rence Areas	
			Desc	при	Moderate	icai Reici		None
Attribute	Indicato	rs	Extre			Moderate	Slight to Moderate	to Sligh
					Zationic			~ 11 <u>6</u> 11
SH	Rills							X
Comments:								
SH	Water F	low Patterns					X	
Comments:								

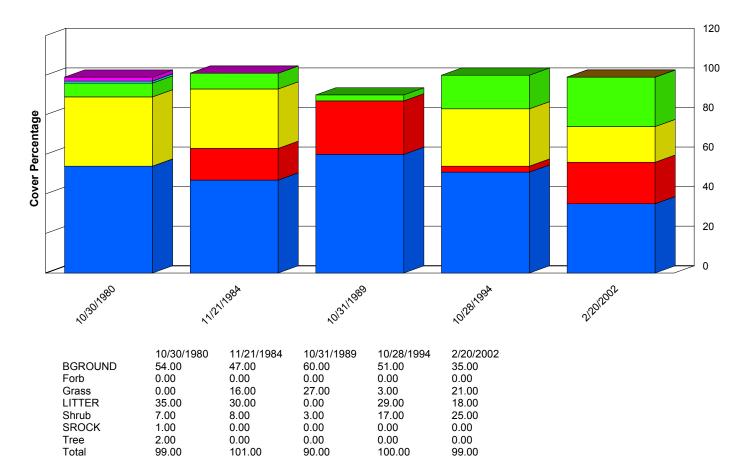
SH	Pedestals and/or Terracettes			X		
Comments:						
SH	Bare Ground		X			
Comments:	Bareground is 60-70% current	ly.				
SH	Gullies			X		
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas			X		
Comments:	Deposition areas are evident es (Prosopis glandulosa) plants.	specially	at the base	of the larg	ge mesquit	e
Н	Litter Movement				X	
Comments:						
SHB	Soil Surface Resistance to Erosion			X		
Comments:	Interspace as well as under car stability test.	opy soil,	loses stabi	lity rapidl	y with soil	/site
SHB	Soil Surface Loss or Degradation				X	
Comments:	Horizon still intact suggesting	an influe	nce from w	ind cause	d deposition	n.
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
SHB	Compaction Layer				X	
Comments:						
В	Functional/Structural Groups				X	
Comments:	Threeawn (Aristida spp.) is the (Prosopis glandulosa) is the do spp.). Dominance has been slig	minant s	hrub with s			
В	Plant Mortality/Decadence				X	
Comments:						
НВ	Litter Amount			X		
Comments:	Litter is currently at 15-20%.					
В	Annual Production			X		
Comments:	Production is currently at half	of potent	ial expected	d for the si	ite.	
В	Invasive Plants	X				

Comments:	Mesquite (Prosopis glandulosa dunes present and only small of					ce
В	Reproductive Capability of Perennial Plants				X	
Comments:	Despite the large amounts of reproductive capability of the limited.			/	•	ne
S	Physical/Chemical/Biological Crusts				X	
Comments:	Physical crusts evident.					
В	Wildlife Habitat				X	
Comments:						
В	Wildlife Populations				X	
Comments:						
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
Part 3. Sun	nmary					
attributes be	r Summary - Each of the indica elow. An indicator is placed in Standard Attributes.					
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	1	4	4	1
5						
Н	Hydrologic	0	1	4	5	1

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that

lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil	Bareground is currently at 60-70% and appears to be approaching a higher percentage. Whatever perennial grass cover is present; threeawn (Aristida spp.), dropseed (Sporobolus spp.) and bush muhly (Muhlenbergia porteri) are making up the majority of vegetative cover with the remainder as bareground encircling the mesquite (Prosopis glandulosa) dune areas.	1	4	5
Hydrologic		1	4	6
Biotic	The site is dominated by mesquite (Prosopis glandulosa). This biotic attribute is rating at the extreme category. There is some perennial grass present, but only on the interdunal areas. Sage (Artemesia spp.) is the other shrub which is present, but in smaller amounts.	1	3	9
Site Notes:				



Forb
Tree
SROCK

Shrub
LITTER
Grass

BGROUND

Report Parameters

SITE NAME LIKE 65021-#1-D056 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

Report Parameters

 SITE NAME LIKE
 65021-#1-D056

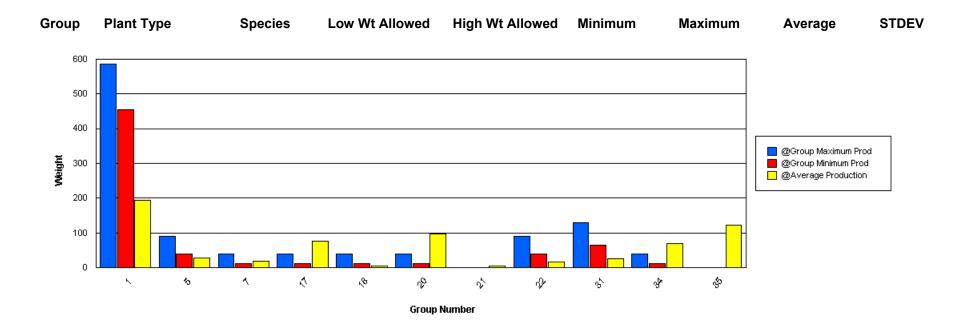
 ON/AFTER
 10/01/1980

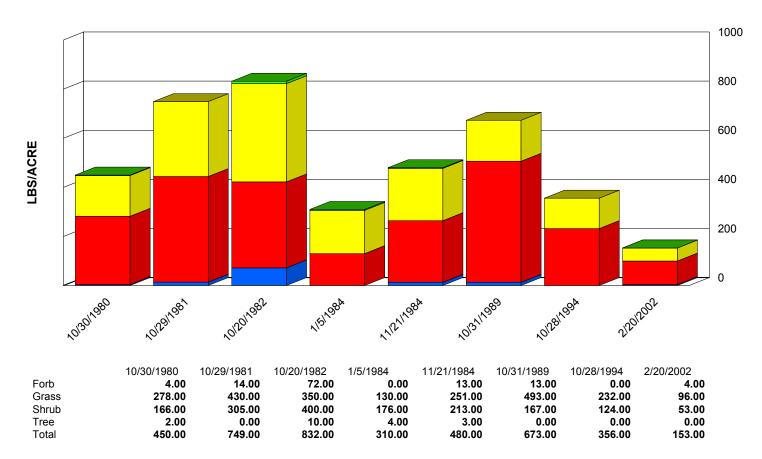
 ON/BEFORE
 09/30/2002

MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY005NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	SPCR	455	585	9.00	161.00	70.38	56.18
1	Grass	SPFL2	455	585	28.00	230.00	123.67	82.81
5	Grass	ARIST	39	91	0.00	46.00	27.13	16.59
7	Grass	BOER4	13	39	9.00	36.00	18.00	10.56
17	Grass	MUPO2	13	39	29.00	132.00	77.50	38.57
18	Grass	SEMA5	13	39	0.00	11.00	6.20	4.07
20	Grass	BOBR	13	39	1.00	48.00	21.40	19.89
20	Grass	BOGR2	13	39	3.00	70.00	39.00	27.58
20	Grass	MUAR2	13	39	0.00	5.00	2.33	2.05
20	Grass	PAOB	13	39	34.00	36.00	35.00	1.00
21	Grass	ERPU8			0.00	18.00	5.00	6.16
22	Forb	CROTO	39	91	0.00	45.00	11.75	19.20
22	Forb	CRPO5	39	91	0.00	11.00	5.50	5.50
27	Forb	AAFF	13	39	0.00	1.00	0.75	0.43
28	Forb	ERIOG	13	39	0.00	1.00	0.50	0.50
31	Shrub	YUCCA	65	130	8.00	50.00	21.00	17.00
31	Tree	YUEL	65	130	0.00	10.00	3.80	3.37
34	Shrub	DAFO	13	39	4.00	10.00	6.67	2.49
34	Shrub	GUSA2	13	39	4.00	142.00	63.88	43.74
35	Shrub	PRGL2	0	0	29.00	326.00	123.63	91.00





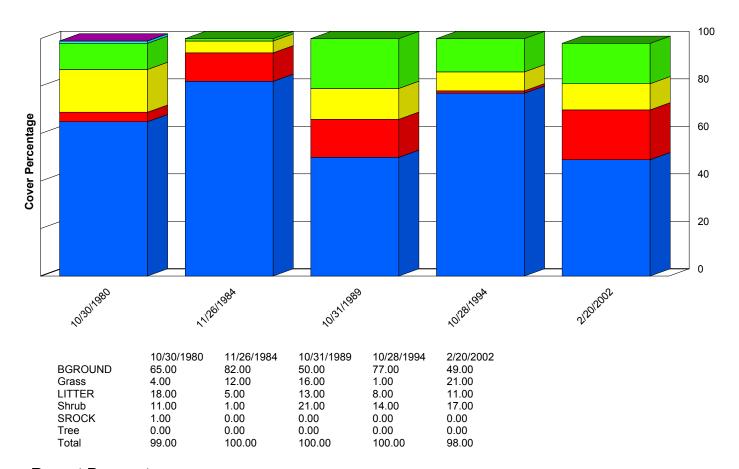
Tree

Shrub Grass

Forb

Report Parameters

SITE NAME LIKE 65021-#1-D056 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002



Tree

Grass
BGROUND

SROCK
Shrub

Report Parameters

SITE NAME LIKE 65021-#2-D057 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

Report Parameters

 SITE NAME LIKE
 65021-#2-D057

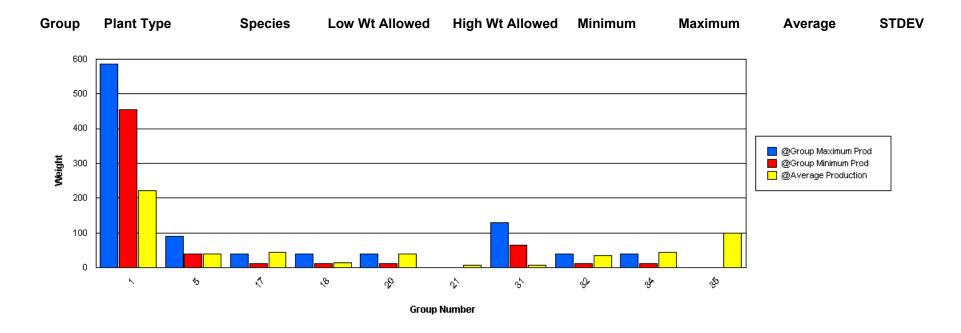
 ON/AFTER
 10/01/1980

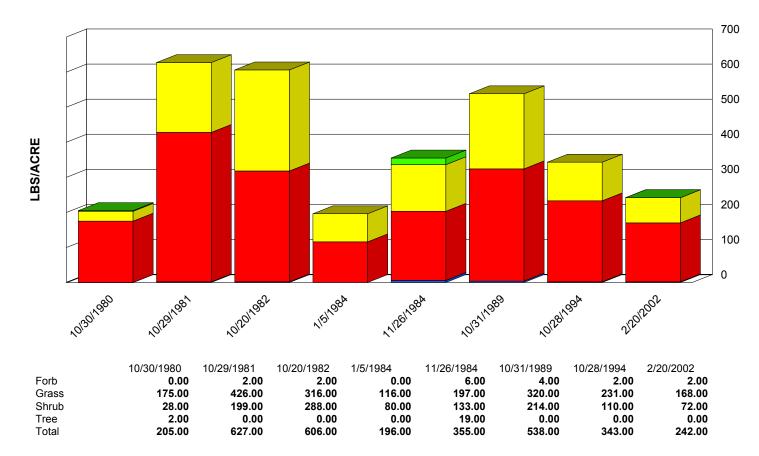
 ON/BEFORE
 09/30/2002

MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY005NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	SPCO4	455	585	6.00	92.00	49.00	35.11
1	Grass	SPCR	455	585	12.00	127.00	60.71	44.82
1	Grass	SPFL2	455	585	28.00	252.00	111.75	89.78
5	Grass	ARIST	39	91	0.00	117.00	39.38	36.73
17	Grass	MUPO2	13	39	1.00	78.00	44.50	28.14
18	Grass	SEMA5	13	39	0.00	55.00	13.71	17.39
20	Grass	BOBR	13	39	8.00	95.00	37.67	40.55
20	Grass	BOGR2	13	39	0.00	1.00	0.50	0.50
20	Grass	PARA2	13	39	0.00	4.00	2.00	2.00
21	Grass	ERPU8			1.00	22.00	7.63	8.29
27	Forb	AAFF	13	39	0.00	5.00	2.17	1.86
28	Forb	ERIOG	13	39	0.00	1.00	0.50	0.50
31	Tree	YUEL	65	130	0.00	19.00	7.00	8.52
32	Shrub	ATCA2	13	39	16.00	56.00	36.00	20.00
34	Shrub	GUSA2	13	39	2.00	118.00	44.43	47.37
35	Shrub	PRGL2	0	0	16.00	285.00	100.14	94.52





Tree

Shrub Grass

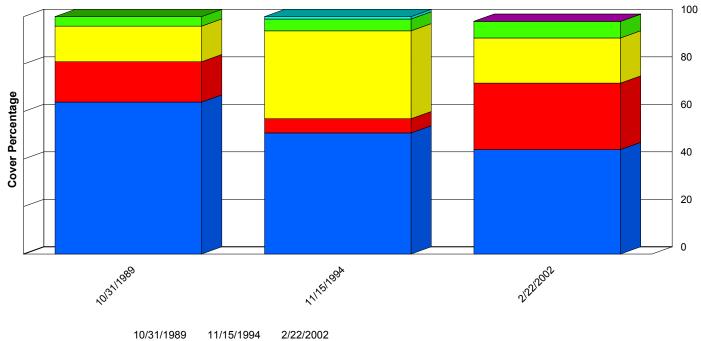
Forb

Report Parameters

 SITE NAME LIKE
 65021-#2-D057

 ON/AFTER
 10/01/1980

 ON/BEFORE
 09/30/2002



|--|

	10/31/1989	11/15/1994	2/22/2002
BGROUND	64.00	51.00	44.00
Forb	0.00	1.00	0.00
Grass	17.00	6.00	28.00
LITTER	15.00	37.00	19.00
Shrub	4.00	5.00	7.00
SROCK	0.00	0.00	0.00
Total	100.00	100.00	98.00

Report Parameters

SITE NAME LIKE 65021-#2-PRIVATE-D064 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

Report Parameters

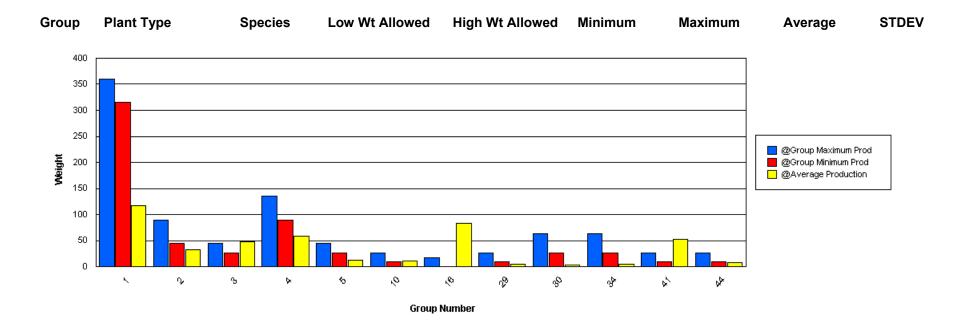
SITE NAME LIKE 65021-#2-PRIVATE-D064

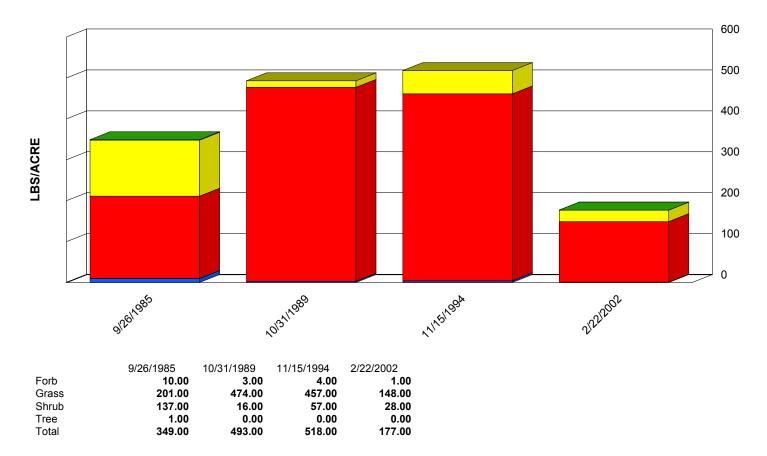
ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY004NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	315	360	52.00	211.00	116.75	58.84
2	Grass	BOGR2	45	90	6.00	88.00	32.25	32.68
3	Grass	MUPO2	27	45	0.00	125.00	48.33	54.82
4	Grass	SPCR	90	135	1.00	124.00	59.25	45.43
5	Grass	ARIST	27	45	0.00	23.00	12.75	10.40
10	Grass	HIMU2	9	27	5.00	22.00	11.00	7.79
16	Grass	BOBR	0	18	69.00	99.00	84.00	15.00
23	Grass	MUAR2	9	27	0.00	4.00	2.00	2.00
29	Grass	SPNE	9	27	3.00	8.00	5.50	2.50
30	Forb	CROTO	27	63	0.00	6.00	3.00	3.00
34	Forb	AAFF	27	63	3.00	4.00	3.50	0.50
34	Forb	PEPA2	27	63	0.00	2.00	1.00	1.00
35	Forb	LEMO2	9	27	0.00	2.00	1.00	1.00
37	Tree	YUEL	9	45	0.00	1.00	0.50	0.50
41	Shrub	GUSA2	9	27	6.00	131.00	52.50	49.19
44	Shrub	PRGL2	9	27	6.00	10.00	8.00	2.00





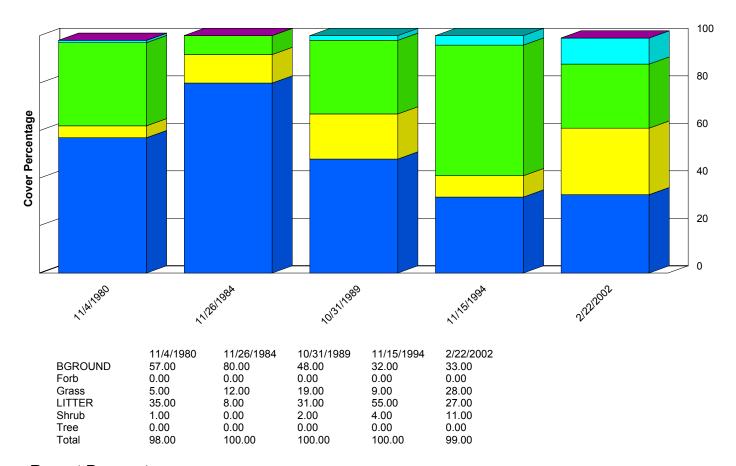
Tree

Shrub
Grass
Forb

Report Parameters

SITE NAME LIKE 65021-#2-PRIVATE-D064

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002



Tree

Forb
BGROUND

Shrub
LITTER
Grass

Report Parameters

SITE NAME LIKE 65021-#3-D058 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

Report Parameters

 SITE NAME LIKE
 65021-#3-D058

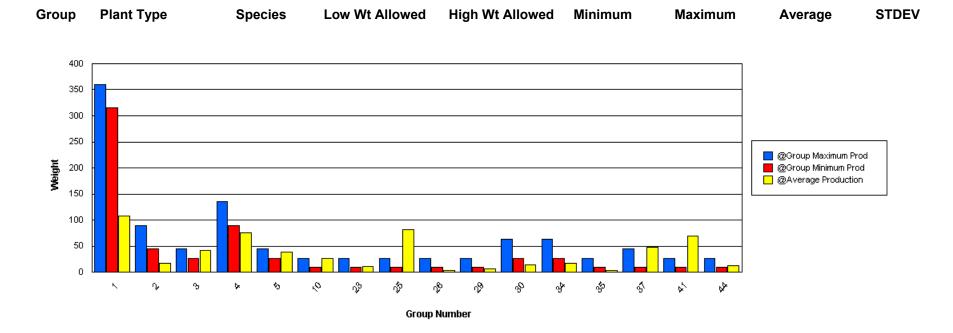
 ON/AFTER
 10/01/1980

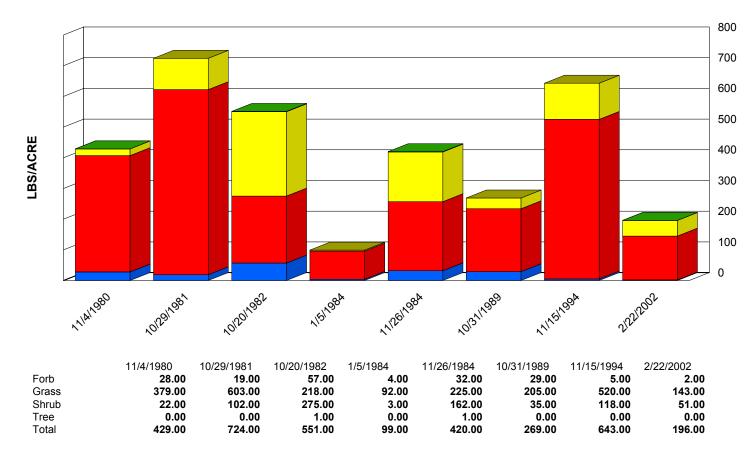
 ON/BEFORE
 09/30/2002

MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY004NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	315	360	24.00	214.00	108.50	60.38
2	Grass	BOGR2	45	90	1.00	70.00	16.57	23.05
3	Grass	MUPO2	27	45	4.00	164.00	42.40	61.21
4	Grass	SPCO4	90	135	0.00	67.00	28.40	22.58
4	Grass	SPCR	90	135	3.00	86.00	33.63	26.57
4	Grass	SPFL2	90	135	0.00	38.00	13.20	13.78
5	Grass	ARIST	27	45	0.00	152.00	38.63	46.47
10	Grass	HIJA	9	27	0.00	31.00	14.00	12.83
10	Grass	HIMU2	9	27	8.00	16.00	12.25	3.03
23	Grass	MUAR2	9	27	0.00	18.00	10.50	6.53
25	Grass	PARA2	9	27	15.00	149.00	82.00	67.00
26	Grass	SCBR2	9	27	1.00	7.00	3.00	2.83
29	Grass	ERPU8	9	27	0.00	8.00	4.25	3.77
29	Grass	SPNE	9	27	3.00	3.00	3.00	0.00
30	Forb	CROTO	27	63	0.00	45.00	12.80	16.85
30	Forb	CRPO5	27	63	0.00	2.00	1.00	1.00
32	Forb	LESQU	27	63	0.00	3.00	2.25	1.30
34	Forb	AAFF	27	63	0.00	27.00	6.88	7.91
34	Forb	XADR	27	63	0.00	21.00	10.50	10.50
35	Forb	PPFF	9	27	2.00	3.00	2.50	0.50
35	Forb	SELO	9	27	0.00	1.00	0.50	0.50
37	Shrub	YUCCA	9	45	20.00	108.00	47.75	35.32
37	Tree	YUEL	9	45	0.00	1.00	0.50	0.50
41	Shrub	GUSA2	9	27	1.00	275.00	68.88	93.62
44	Shrub	PRGL2	9	27	13.00	13.00	13.00	0.00





Grass Forb

Tree

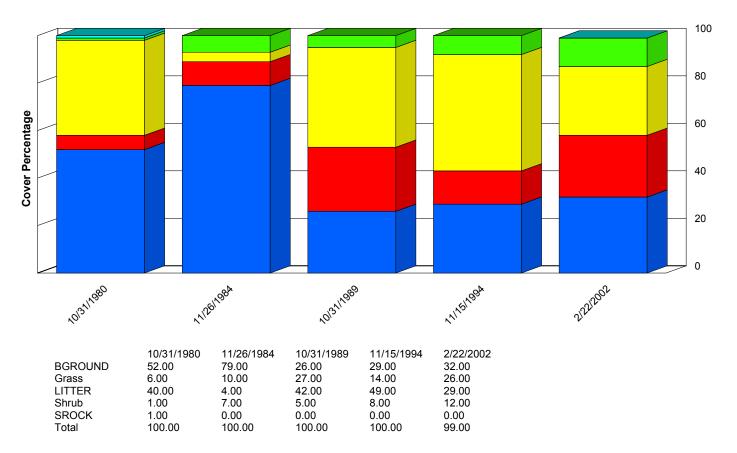
Shrub

Report Parameters

 SITE NAME LIKE
 65021-#3-D058

 ON/AFTER
 10/01/1980

 ON/BEFORE
 09/30/2002



SROCK
Shrub
LITTER
Grass

BGROUND

Report Parameters

SITE NAME LIKE 65021-#4-D059 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

Report Parameters

 SITE NAME LIKE
 65021-#4-D059

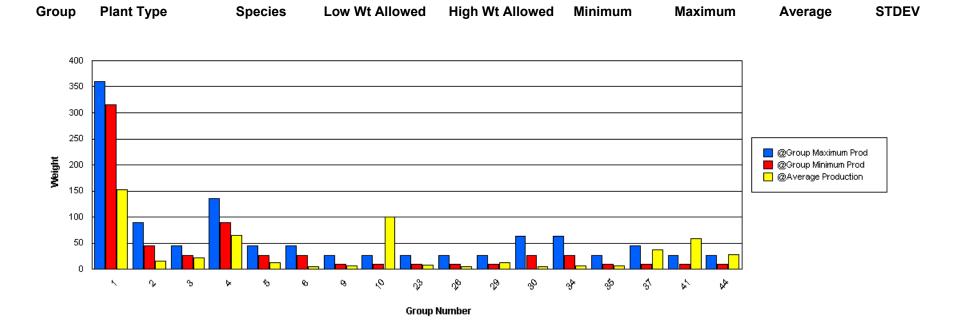
 ON/AFTER
 10/01/1980

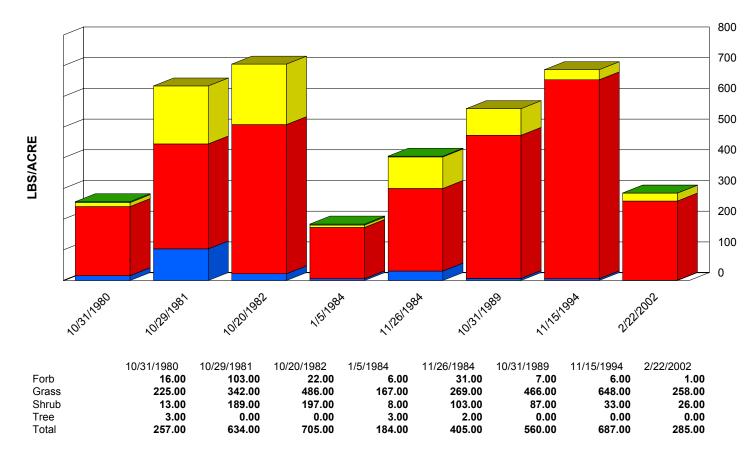
 ON/BEFORE
 09/30/2002

MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY004NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	315	360	63.00	366.00	151.75	94.49
2	Grass	BOGR2	45	90	5.00	28.00	16.50	11.01
3	Grass	MUPO2	27	45	5.00	53.00	21.50	16.54
4	Grass	SPCO4	90	135	11.00	11.00	11.00	0.00
4	Grass	SPCR	90	135	8.00	159.00	54.00	46.05
5	Grass	ARIST	27	45	0.00	31.00	12.00	10.64
6	Grass	SEMA5	27	45	0.00	16.00	5.67	7.32
9	Grass	PAOB	9	27	0.00	23.00	6.33	7.82
10	Grass	HIMU2	9	27	42.00	198.00	100.29	52.05
23	Grass	MUAR2	9	27	1.00	15.00	8.17	4.88
26	Grass	SCBR2	9	27	0.00	10.00	4.25	4.02
29	Grass	ERPU8	9	27	0.00	2.00	1.00	1.00
29	Grass	SPNE	9	27	1.00	22.00	11.50	10.50
30	Forb	CROTO	27	63	1.00	9.00	3.75	3.11
30	Forb	CRPO5	27	63	0.00	1.00	0.50	0.50
32	Forb	LEFE	27	63	0.00	1.00	0.50	0.50
34	Forb	AAFF	27	63	0.00	25.00	7.00	7.14
35	Forb	LEER	9	27	0.00	1.00	0.50	0.50
35	Forb	PENA	9	27	1.00	15.00	4.00	5.51
35	Forb	SOEL	9	27	0.00	4.00	1.83	1.34
37	Shrub	YUCCA	9	45	30.00	40.00	35.00	5.00
37	Tree	YUEL	9	45	0.00	3.00	2.00	1.22
41	Shrub	GUSA2	9	27	1.00	197.00	58.75	67.14
44	Shrub	PRGL2	9	27	10.00	71.00	28.25	24.96





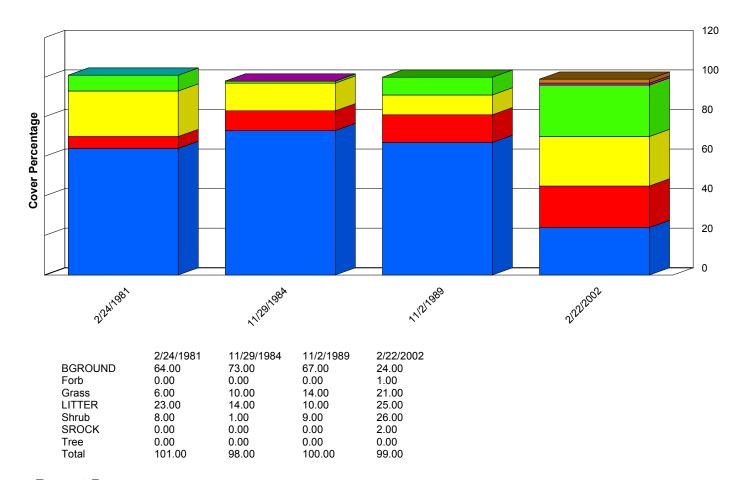
Tree Shrub Grass Forb

Report Parameters

 SITE NAME LIKE
 65021-#4-D059

 ON/AFTER
 10/01/1980

 ON/BEFORE
 09/30/2002



SROCK
Forb
Tree

Shrub
LITTER
Grass

BGROUND

Report Parameters

SITE NAME LIKE 65021-GRIFFEN EAST-D052 ON/AFTER 10/01/1980

ON/BEFORE 09/30/2002

Report Parameters

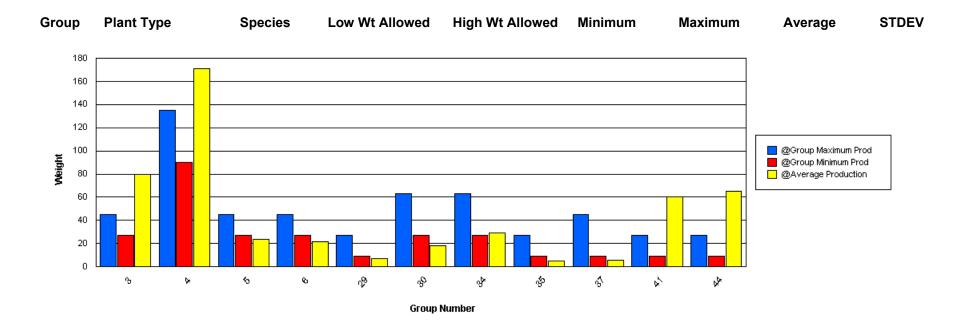
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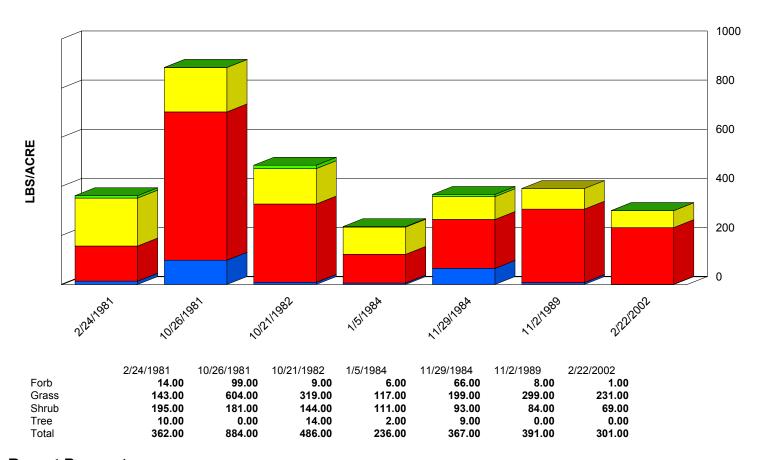
ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY004NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
3	Grass	MUPO2	27	45	33.00	139.00	79.67	38.79
4	Grass	SPCO4	90	135	0.00	14.00	6.50	6.54
4	Grass	SPCR	90	135	0.00	351.00	123.83	131.80
4	Grass	SPFL2	90	135	0.00	103.00	40.83	37.41
5	Grass	ARIST	27	45	0.00	81.00	23.57	30.31
6	Grass	SEMA5	27	45	0.00	65.00	21.83	21.05
29	Grass	MUTO2	9	27	0.00	34.00	6.80	13.60
30	Forb	CROTO	27	63	0.00	14.00	5.43	5.07
30	Forb	CRPO5	27	63	0.00	25.00	12.50	12.50
34	Forb	AAFF	27	63	0.00	4.00	1.67	1.49
34	Forb	ERAN3	27	63	0.00	78.00	19.00	30.23
34	Forb	PECTI	27	63	0.00	16.00	8.00	8.00
34	Forb	XADR	27	63	0.00	1.00	0.50	0.50
35	Forb	ERIOG	9	27	0.00	7.00	1.75	3.03
35	Forb	LEPID	9	27	0.00	2.00	1.00	1.00
35	Forb	LOCO	9	27	0.00	2.00	1.00	1.00
35	Forb	PPFF	9	27	0.00	7.00	1.40	2.80
37	Tree	YUEL	9	45	0.00	14.00	5.83	5.43
39	Shrub	ATCA2	9	27	0.00	11.00	2.33	4.03
41	Shrub	ARFI2	9	27	0.00	97.00	37.14	29.25
41	Shrub	GUSA2	9	27	4.00	64.00	23.17	20.91
44	Shrub	CHRYS9	9	27	0.00	2.00	1.00	1.00
44	Shrub	PRGL2	9	27	26.00	170.00	64.43	53.56





Tree

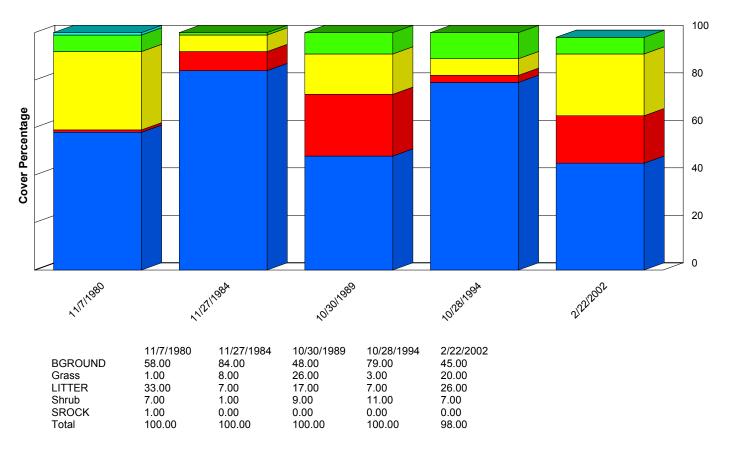
Shrub Grass

Forb

Report Parameters

SITE NAME LIKE 65021-GRIFFEN EAST-D052

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002



SROCK
Shrub
LITTER
Grass

BGROUND

Report Parameters

SITE NAME LIKE 65021-HDQ-D062 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

Functional / Structural Groups

Report Parameters

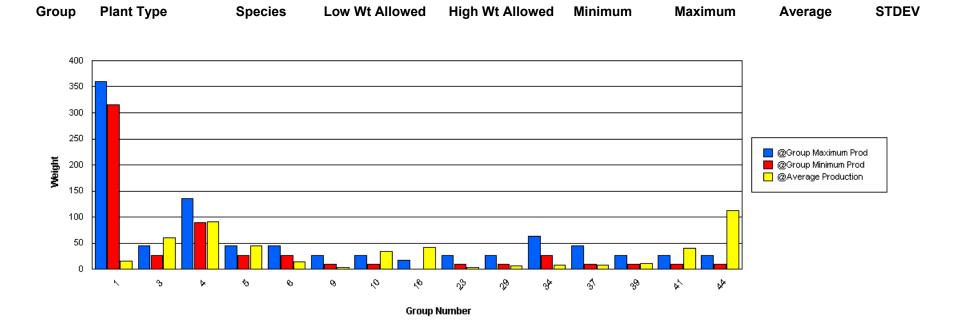
SITE NAME LIKE 65021-HDQ-D062

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

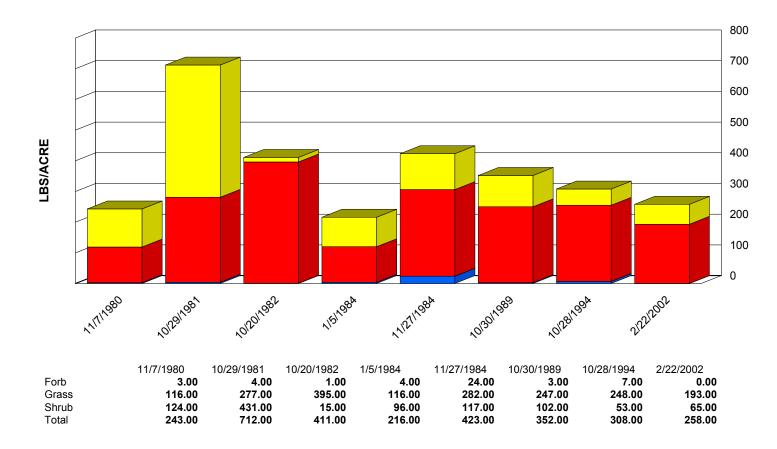
MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY004NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	315	360	6.00	35.00	15.33	10.87
2	Grass	BOGR2	45	90	0.00	3.00	2.00	1.41
3	Grass	MUPO2	27	45	15.00	137.00	60.14	36.92
4	Grass	SPCO4	90	135	8.00	18.00	12.33	4.19
4	Grass	SPCR	90	135	3.00	99.00	32.63	30.39
4	Grass	SPFL2	90	135	0.00	119.00	45.83	36.38
5	Grass	ARIST	27	45	0.00	124.00	45.25	42.01
6	Grass	SEMA5	27	45	0.00	47.00	13.75	19.38
9	Grass	PAOB	9	27	0.00	11.00	3.40	3.93
10	Grass	HIJA	9	27	0.00	24.00	9.00	10.68
10	Grass	HIMU2	9	27	17.00	33.00	25.67	6.60
16	Grass	BOBR	0	18	3.00	82.00	42.50	39.50
23	Grass	MUAR2	9	27	0.00	9.00	4.00	3.24
26	Grass	SCBR2	9	27	0.00	1.00	0.50	0.50
29	Grass	ERPU8	9	27	0.00	17.00	6.00	6.54
29	Grass	TRPI2	9	27	0.00	1.00	0.50	0.50
30	Forb	MELE2	27	63	0.00	4.00	1.25	1.64
32	Forb	LESQU	27	63	0.00	1.00	0.50	0.50
34	Forb	AAFF	27	63	0.00	11.00	3.00	3.42
34	Forb	DIWI	27	63	0.00	3.00	1.00	1.41
34	Forb	HEAN3	27	63	0.00	7.00	3.50	3.50
34	Forb	XADR	27	63	0.00	1.00	0.50	0.50
37	Shrub	YUCCA	9	45	7.00	8.00	7.50	0.50
39	Shrub	ATCA2	9	27	9.00	12.00	11.00	1.41
41	Shrub	GUSA2	9	27	1.00	108.00	40.57	42.74
44	Shrub	PRGL2	9	27	9.00	431.00	111.83	146.10



Production Lbs/Acre Trends



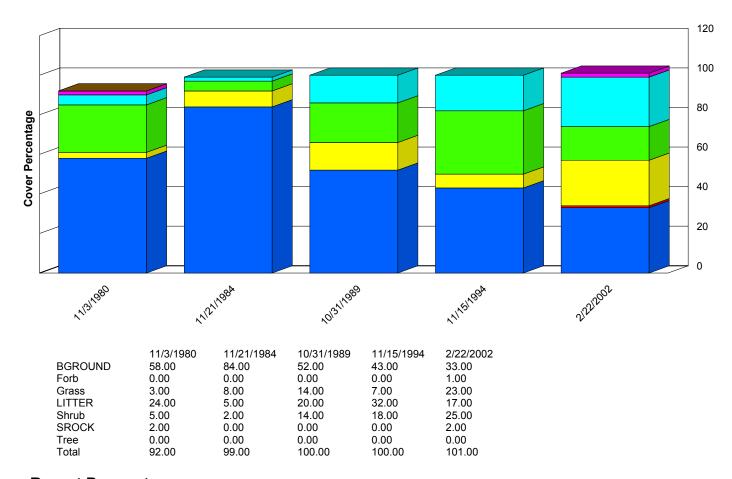
Shrub

Grass
Forb

Report Parameters

SITE NAME LIKE 65021-HDQ-D062 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

Ground Cover Trends



Tree SROCK Shrub

LITTER
Grass
Forb

BGROUND

Report Parameters

SITE NAME LIKE 65021-N. BREAKS-D060

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

Functional / Structural Groups

Report Parameters

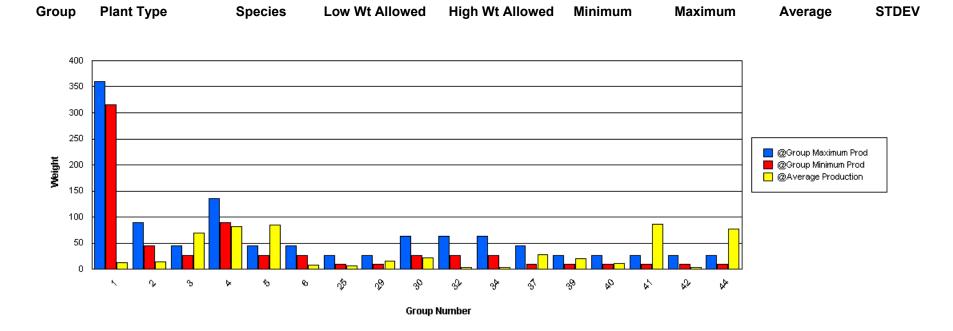
SITE NAME LIKE 65021-N. BREAKS-D060

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

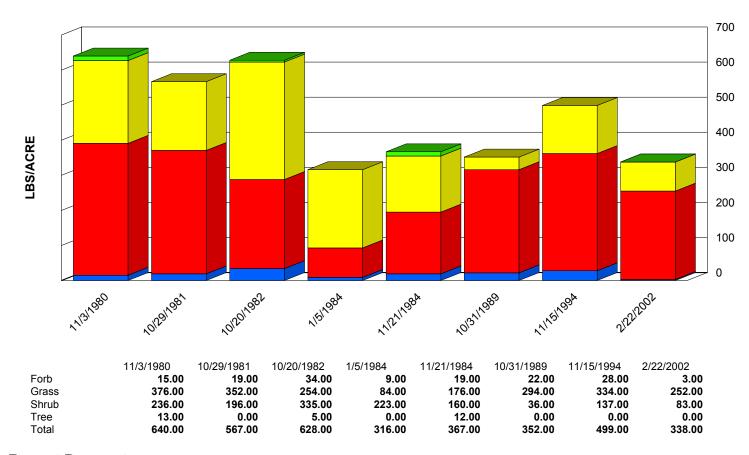
MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY004NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	315	360	4.00	29.00	13.00	10.27
2	Grass	BOGR2	45	90	0.00	46.00	14.40	16.66
3	Grass	MUPO2	27	45	9.00	153.00	70.14	44.98
4	Grass	SPCO4	90	135	6.00	43.00	19.75	13.94
4	Grass	SPCR	90	135	6.00	53.00	25.63	16.32
4	Grass	SPFL2	90	135	20.00	51.00	36.80	10.30
5	Grass	ARIST	27	45	0.00	218.00	84.25	66.03
6	Grass	SEMA5	27	45	0.00	20.00	8.40	8.40
25	Grass	PARA2	9	27	0.00	21.00	7.00	8.22
29	Grass	ERPU8	9	27	2.00	32.00	15.67	12.39
30	Forb	CROTO	27	63	8.00	22.00	15.17	5.18
30	Forb	CRPO5	27	63	0.00	12.00	6.00	6.00
30	Forb	MELE2	27	63	0.00	1.00	0.75	0.43
32	Forb	LESQU	27	63	0.00	9.00	3.33	4.03
34	Forb	AAFF	27	63	0.00	6.00	2.83	2.41
34	Forb	ERAN3	27	63	0.00	1.00	0.50	0.50
35	Forb	DYPE2	9	27	1.00	3.00	2.00	0.82
37	Shrub	YUCCA	9	45	15.00	30.00	20.33	6.85
37	Tree	YUEL	9	45	0.00	13.00	7.50	5.32
39	Shrub	ATCA2	9	27	18.00	22.00	19.67	1.70
40	Shrub	COER5	9	27	5.00	17.00	10.50	4.77
41	Shrub	GUSA2	9	27	8.00	248.00	86.63	71.97
42	Shrub	DAFO	9	27	2.00	5.00	3.67	1.25
44	Shrub	PRGL2	9	27	18.00	162.00	77.14	49.36



Production Lbs/Acre Trends



Tree

Shrub Grass

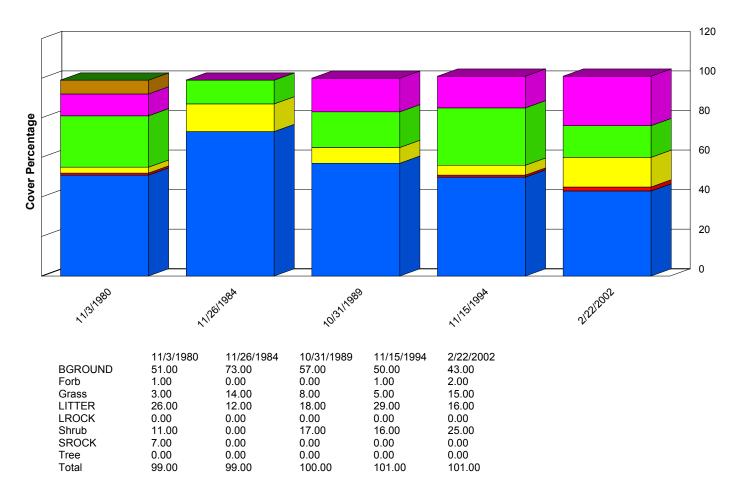
Forb

Report Parameters

SITE NAME LIKE 65021-N. BREAKS-D060

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

Ground Cover Trends



Tree

SROCK Shrub

LROCK
LITTER
Grass
Forb

BGROUND

Report Parameters

SITE NAME LIKE 65021-S. BREAKS-D061

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

Functional / Structural Groups

Report Parameters

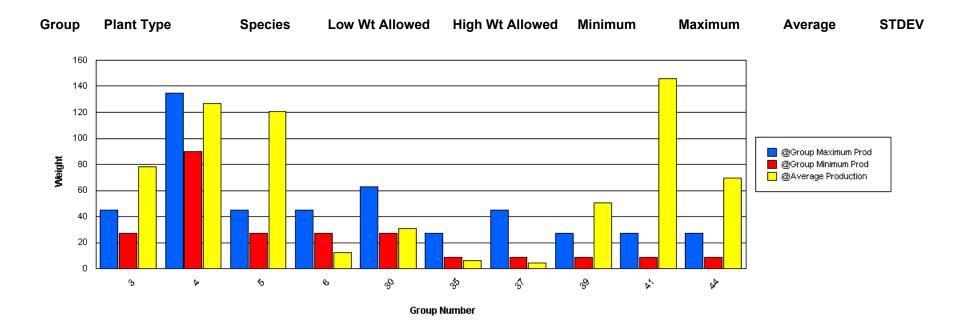
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ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

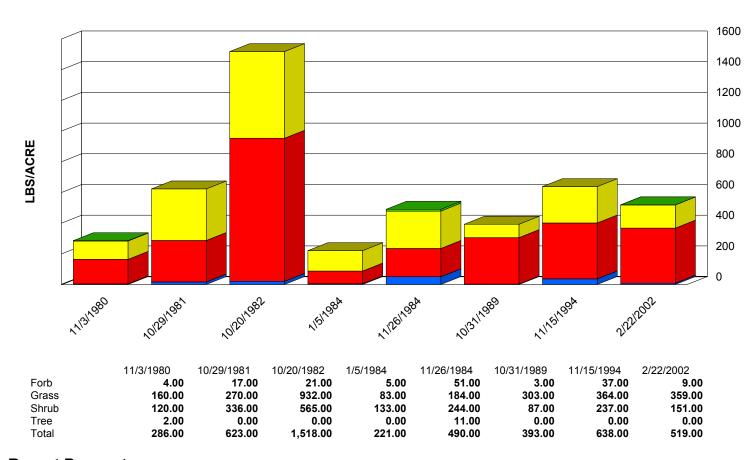
MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY004NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
3	Grass	MUPO2	27	45	7.00	269.00	78.25	82.13
4	Grass	SPCO4	90	135	0.00	26.00	14.20	9.13
4	Grass	SPCR	90	135	7.00	150.00	53.00	55.12
4	Grass	SPFL2	90	135	0.00	233.00	59.57	73.82
5	Grass	ARIST	27	45	0.00	680.00	120.75	214.38
6	Grass	SEMA5	27	45	0.00	28.00	12.17	9.92
12	Grass	LECO	9	27	1.00	3.00	2.00	1.00
30	Forb	CROTO	27	63	3.00	35.00	14.00	11.93
30	Forb	CRPO5	27	63	0.00	34.00	17.00	17.00
34	Forb	AAFF	27	63	0.00	6.00	1.50	2.06
35	Forb	ERIOG	9	27	0.00	11.00	5.50	5.50
35	Forb	SOEL	9	27	1.00	1.00	1.00	0.00
37	Tree	YUEL	9	45	0.00	11.00	4.33	4.78
39	Shrub	ATCA2	9	27	0.00	214.00	50.29	68.79
41	Shrub	ARFI2	9	27	3.00	149.00	47.00	52.54
41	Shrub	GUSA2	9	27	2.00	185.00	99.00	67.85
44	Shrub	PRGL2	9	27	10.00	206.00	68.71	64.25
44	Shrub	SENEC2	9	27	0.00	2.00	1.00	1.00



Production Lbs/Acre Trends



Tree

Shrub
Grass
Forb

Report Parameters

SITE NAME LIKE 65021-S. BREAKS-D061

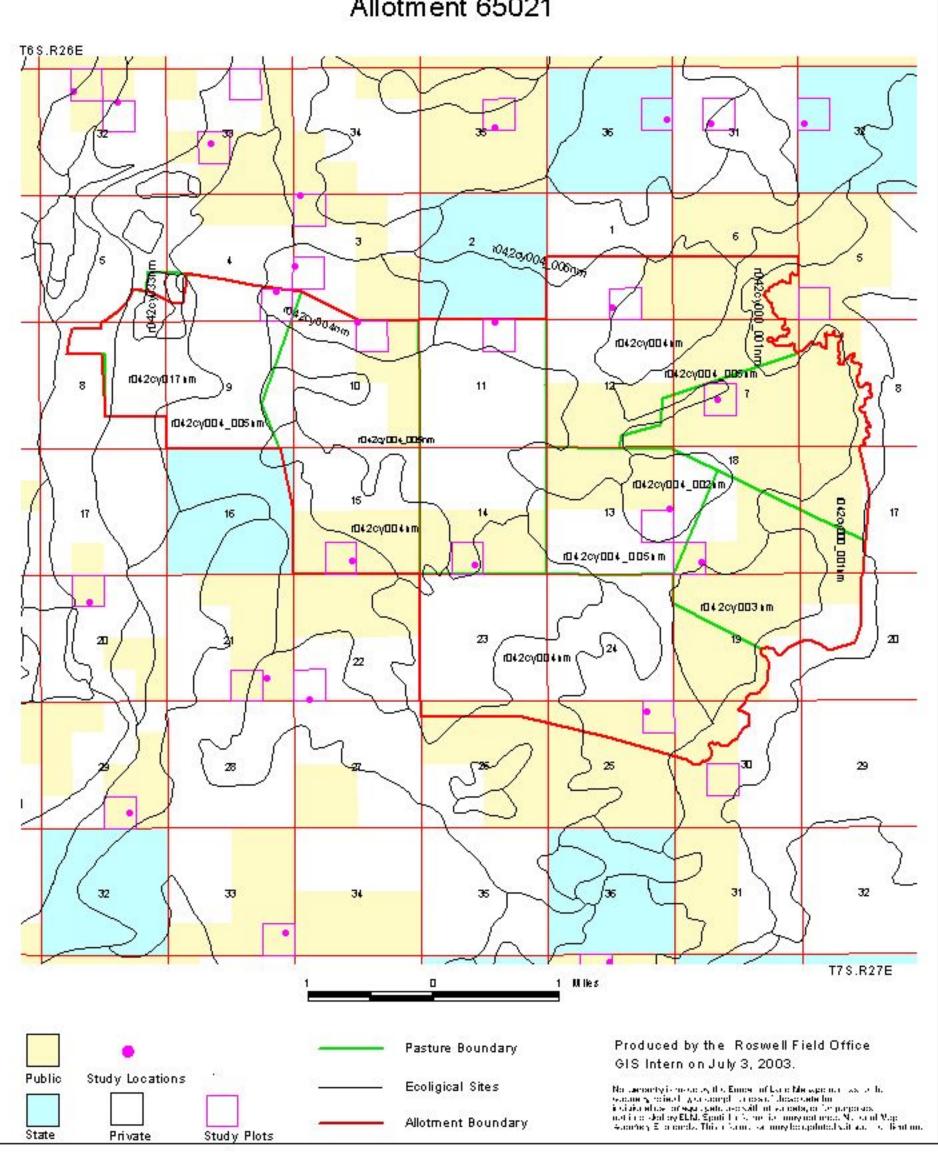
ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002



Rangeland Health Assessment **Ecological Sites**



Allotment 65021





Rangeland Health Assessment **Soil Mapping Units**



